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J. ALLAN ROSS

Commissioner

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HYDRO-ELETRIC INQUIRY COMMISSION

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

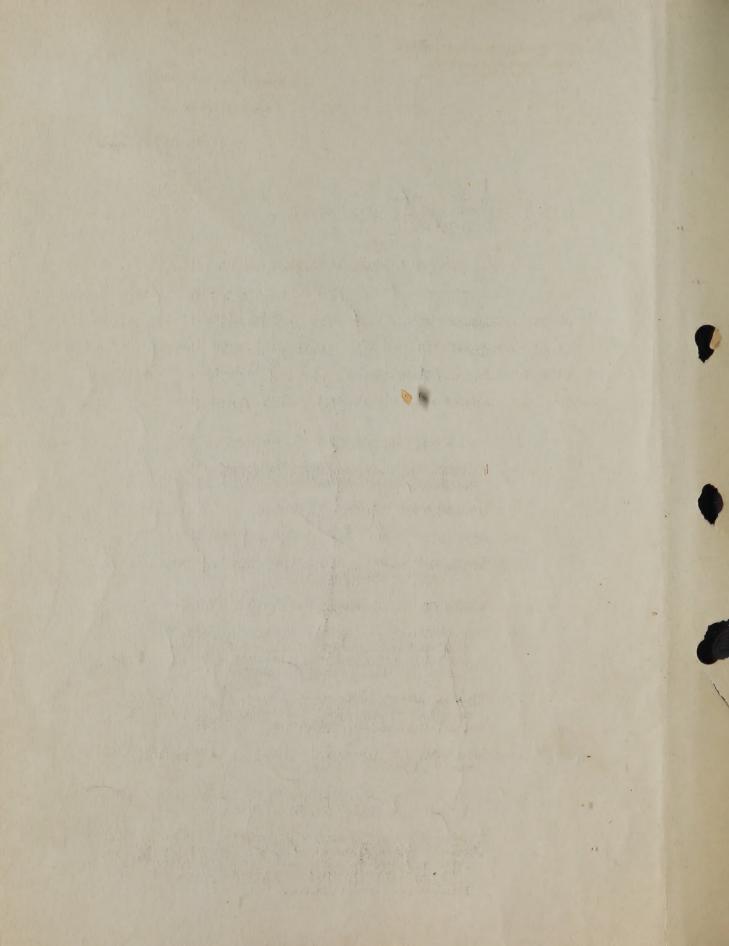
Report on investigation of

AUG 22 1958

EMPERSITY OF TORONIO

REPORT ON INVESTIGATION OF ACCOUNTS
OF
EUGENIA SYSTEM
DATED NOVEMBER 29,1922

Piice, Waterhouse & Co.
ROYAL BANK BUILDING
TORONTO, ONT., CANADA



## PRICE, WATERHOUSE & Co.

CANADA.UNITED STATES.MEXICO. GREAT BRITAIN.

ROYAL BANK BUILDING

CONTINENTAL EUROPE, ETC.
PRICE, WATERHOUSE, PEAT & CO.
SOUTH A MARRICA
PRICE, WATERHOUSE, FALLER & CO.
ALSO, GREAT BRITAIN
W. B. PEAT & CO.

#### TORONTO

November 29, 1922

W.D.Gregory, Esq., Chairmon, Hydro-Electric Inquiry Commission, Toronto, Ontario.

Dear Sir:

## MUCENIA SYSTEM AND MUCENIA MURAL LINES

In accordance with instructions received, we have made a general investigation of the accounts and records of the Eugenia System and the Eugenia Eural Lines operated under trusteeship by the Eydro-Alectric Power Commission of Ontario, and we have prepared therefrom and submit herewith the following Exhibits:

- 1 Operating Accounts of the Bugenia System
- la Analysis of Revenue from Municipalities, etc., together with Horse Power Loads and Rates
- 1b Analysis of Overhead Expenses
- 11 Operating Account of Eugenia Rural Lines
- 111 Statement showing the basis for the annual rate of Reserve for Renewals
- IX Statement of Reserve for Contingencies
- V List of Bunicipalities in the Bugenia System together with balance as at October 31, 1921, resulting from the adjustment, to the cost of power, of interim power bills
- VI Statement of Accounts due by Municipalities in respect of the cost of power at October 31, 1921, still unpaid at September 20, 1922
- VII Excerpts from contract with one Municipality of the System
- VIII Excerpts from contract with Township of Artemesia, classified under Rural Lines
  - IX Memorandum prepared by the Engineering Department of the Hydro-Electric Power Commission re Tic Line between Wasdell, Orillia and Big Chute, and between Severn and Eugenia Systems.

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## SCOPE OF INVESTIGATION

Our investigation of the accounts of the Rugenia System
has been confined to a general review thereof and to the consideration
of such questions of accounting principle as came to our attention,
any extended audit being thought unmecessary for your purposes, as
Tr. G.T. Clarkson, F.C.A. has previously reported upon the accounts
from the commencement, to October 31, 1981.

The various assets, liabilities and reserves of the Rugenia System and the Rugenia Rural Lines, contained in and forming a part of the general books of the Rydro-Electric Power Commission of Ontario, are reported upon herein according to the following main subdivisions:

ACCOUNTS	Dalance October Debit	as at 31, 1921 Credit
CAPITAL INVESTE MY OF STATING ACCOUNTS RESERVE FOR RESERVALS RECERVE FOR SINCING FUND -	\$2,048,663.60	\$181,830.21
Eugenia System Eugenia Rural Lines RESERVE FOR CONTINGENCIES ACCOUNTS WITH MUNICIPALITIES	month of the state	13,156.54 144.71 12,079.58
(Interim Power Bills) In respect of Cost of Power (Adjustment of Interim Pow Accounts Receivable	46,539,57 • Pille) 103,477,55	
Accounts Payable		2,750.90

Before commenting upon the accounts we would first review. briefly, the history and organization of the System.

## HISTORY AND ORGANIZATION

The Bugenia System had its inception in 1914, and by December, 1915, embraced six municipalities. At the close of the

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latest fiscal year the System was serving twenty-three municipalities, a list of which appears on Exhibit V, and sundry customers in the Village of Horning's Hills, while the Sugania Rural Lines comprised two municipalities, those of Flesherton and Markdale.

The Hydro-Electric Power Commission of Ontario was authorized to develop the water power on the Beaver River by Order-in-Council of the Province of Ontario, approved by the Lieutenant-Governor, Bovember 6, 1913 as follows:

- \*Upon consideration of the application of the Hydro-Sloctric Power Cossission of Ontario in that behalf, the Cossistee of Council advise that pursuant to the provisions of The Power Cossission Act. Chapter 19, 7 Edward VII and ascendsonts thereto, the Cossission be authorized to develop the water power known as Eugenia Falls on the Beaver River in the Township of Artemesia County of Grey and Province of Ontario, such authority to cover the following matters.
- 1. The purchase of the works assets real property and rights of the Georgian Bay Power Company at Bugenia Falls as above located.
- 2. The purchase of such additional riparian rights and privileges as may be found necessary in the opinion of the Commission for the complete ultimate development of the above mentioned site.
- 5. The purchase of necessary material and Equipment for construction of the plant at Eugenia Falls for the generation of electrical energy and for its transformation for transmission to the various Eunicipalities in the Owen Sound District.
- 4. The purchase of necessary material and Equipment for construction of transmission lines, and transformer stations, for delivery of the said power to the various Eunicipalities in the Owen Hound District, including both low and high tension transmission lines."

In accordance with this Order-in-Council, the Cosmission purchased on May 5, 1914, from the Georgian Bay Power Company, Limited, for a consideration of \$60,000, all the lands of that Company (with the exception of a small parcel of 3.44 acres of land, granted and conveyed as a leasehold) the franchise, and the water power in the

vicinity of Eugenia Palls on the Heaver River. This amount was paid to the National Trust Company, Limited, the mortgages of a certain portion of the property acquired.

Concurrently the Commission purchased approximately 1525 acres of land, and in addition thereto, 175 acres of land were expropriated. On the properties so acquired the Hydro-Electric Power Commission constructed a reinforced concrete dam and an earth-filled storage dam, and flooded practically the whole area.

The Commission's further authority for the acquisition of lands, water power and works, is given by the Power Commission Act, R.S.O., 1914. Chapter 59, Section 8 (a) which is as follows:

"Acquire by purchase, lease or otherwise, or, without the consent of the owner thereof or of any person interested therein, enter upon, take possession of, expropriate and use the land, waters, water privileges, water powers, works, anchinery and plant of any person owning, holding under lease or otherwise, or developing, operating or using the same for generating, or adapted for generating electrical power or energy or for the transmission thereof in Ontario; and develop and use the same for any of the purposes of this Act."

On Pebruary 10, 1916, the Commission entered into an agreement with the Pine River Light and Power Company, for the purchase of the properties briefly described below, which comprised the Grangeville-Shelburne, Horning's Hills System, the consideration therefor being \$43,570.00:

Station equipment (exclusive of buildings) in the Town of Orangeville, and the Villages of Shelburne and Horning's Hills

Lines from the power house near Horning's Hills, and Lighting System within the limits of the Village of Horning's Hills paid to the delicat from the section, that set to sorther or a section of a continue of the section of the sect

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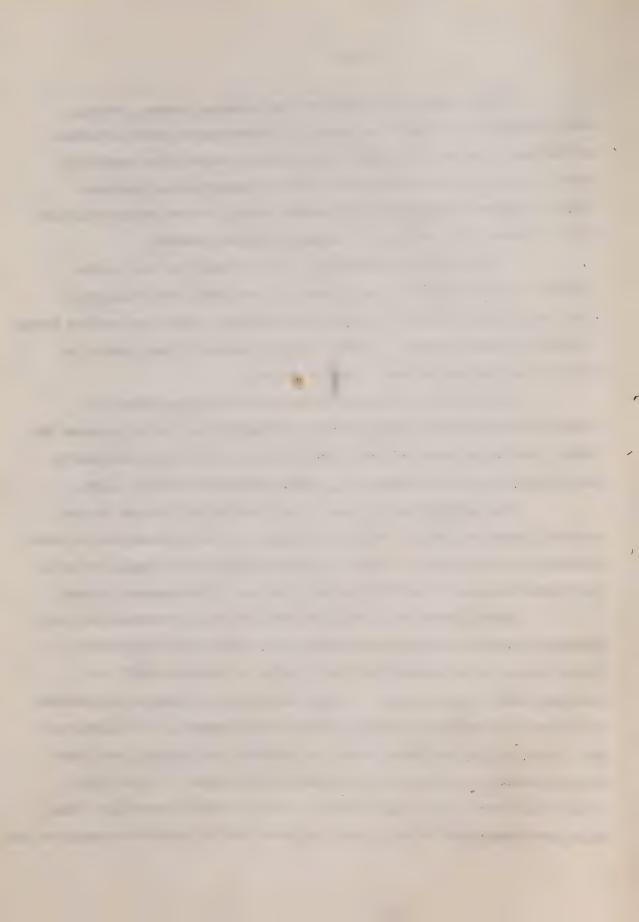
The physical properties of the Bugenia System, proper, may, therefore, be said to consist of a development plant situated at Bugenia Falls on the Beaver River, about twelve miles south of Georgian Bay, of low tension lines and of distributing stations for the purpose of supplying electrical energy to the municipalities and to others lying within the economic limits thereof.

A power tie line connecting the Augenia and the Covern Systems, was completed in the latter part of 1916, and since that time the Augenia System, through this means has, with its surplus power, served the Severn System, which is turn disposes of such power to certain private and municipal corporations.

As a result of the undertakings of the Commission in respect of extensions to the Augenia System, it may be of interest to state that the mileage of transmission lines, built and acquired by the Commission, up to October 31, 1961, asgregated 395.71 miles.

The Augenia Mural Lines, which consist of primary transmission lines and cables, were constructed by the Hydro-Electric Power Commission of Ontario, in order to provide electrical energy to rural customers adjacent to certain municipalities in the Augenia System.

The delivery of electrical power to sural customers of the aumicipalities of Markdale and Flesherton, comprising the Augenia Eural Lines, as at October 51, 1921, began in Sovember 1916 and February 1918, respectively. Haral Lines were at that date operated by these municipalities, which collected the revenue, and maintained the lines, paying the Commission for interest and minking fund provision, based on the capital invested in the lines. These miral lines will recome the property of the municipalities operating these, when the accumulated minking fund payments are sufficient to repay to the



Commission the investment in the lines. The total sinking fund payments and accumulated interest to October 31, 1921 amounted to \$144.71, of which \$105.07 and \$39.64 were paid in by Markdale and Flesherton, respectively.

## CAPITAL LEVESTEEST \$2,048,663.60:

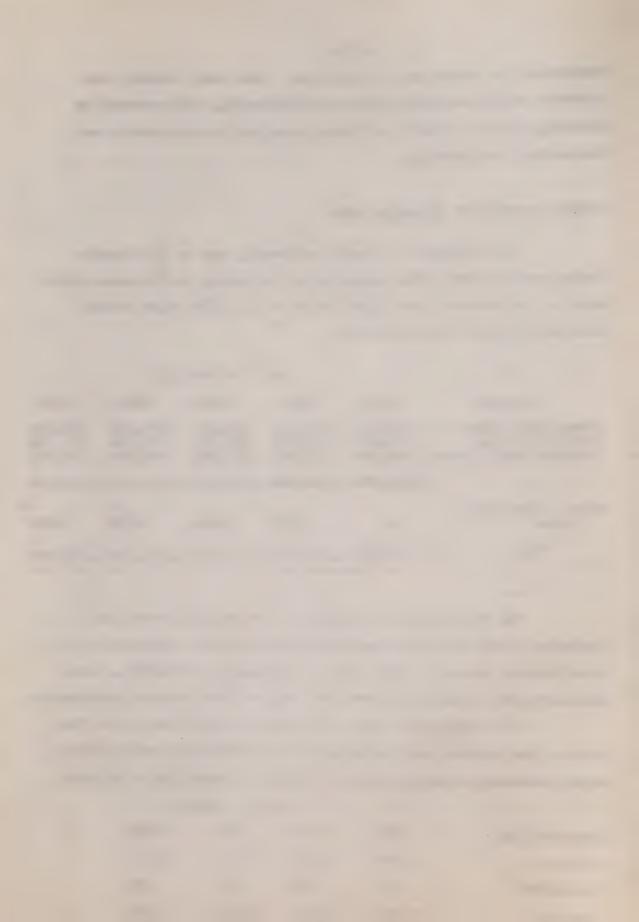
The investment in plant, equipment, etc. of the Sugenia System and the Rural Lines embraces the following, the balances being shown at the close of each fiscal year for the five years ending October 31, 1921, (cents emitted):

		AB	at Octobe	2 21	
Accounts	1017	1918	1919	1020	1.421
Power Development Sood Pole Lines Distributing Station	\$ 650,353 502,659 15 115,264	510,060	956,769 544,059 161,998	979,425 727,450 206,880	990,438 815,629 240,501
	\$1,276,276	1,501,256	1,662,823	1,913,765	2,046,568
Rural - Wood Pole Lines	**	1,576	1,695	1,695	2,095
Total =	\$2,276,276	1,602,832	1,664,518	1,015,460	2,048, 663

The expanditures in respect of the capital assots, as indicated by the detailed classification of accounts subsitted to you under date of August 2, 1922, having previously been sudited, have, therefore, been accepted by us as correct, without further verification.

The Rural Lines consist of primary lines owned by the Commission, but operated and maintained by the following municipalities, owning secondary or service lines tributary thereto (cents omitted):

		An	st October	2
Euntripality	1919	7078	1920	1021
Berbiele	11,004	\$1,165	\$1,163	\$1,243
Tlesherton		512	012	
Together	32,576	\$1,695	\$1,695	\$2,095

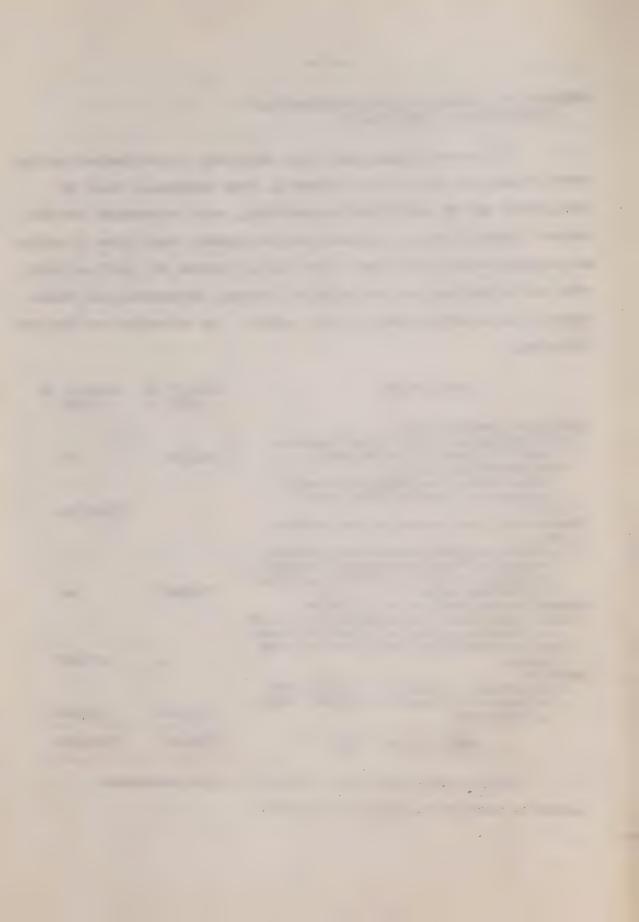


# Zetimate of Additional Funds Required for Construction - \$479,000.00:

It has been estimated by the engineers of the Hyrdo-Meetric Power Commission, that as at October 51, 1921 additional funds of \$160,000.00 and of \$319,000.00 respectively, will be required for the Eugenia System Lines and Stations and the Eugenia Eural Lines in order to complete, during the fiscal years ending October 31, 1912 and 1923, work now in progress and for additional works, betterments and extensions to be undertaken during those years. The estimates are for the following:

Particulars	October 31	October 31 1988
Hydraulic Development- Betterments to Stations and improve- ment of hydraulic conditions Development extension - Bocond Fipe Line surge tank and penstock to provide additional	\$ 50,000	95
Station and Line extension and better-		\$169,000
To cover possible extensions, station increases possibly to serve Fordwich and Serie as line switching structure at handver, etc.  Miscellaneous stations and lines - Small extensions the necessity for which may develop, also for providing means	60,000	*
of converting 25 cycle power for the system  Rural -	*	100,000
Expenditures on account of rural dis- tribution in Townships already under application	50,000	50,000
Total as per above	\$150,000	3319,000
	professional and a second seco	

It is recommended that a report on these estimates should be made by Mr. Walter J. Francis.



## OPERATING ACCOUNT:

The Operating Account of the Engenia System for each year of the four years ending October 31, 1921, is attached heroto, exhibit 1. supplemented by Exhibit 1a, giving details of revenue and rates and exhibit 1b which shows further details of expenses. The following summary has been prepared with a view to briefly stating the operating results of the four years, sub-divided according to Municipalities, to Severn System and to sundry consumers (cents omitted);

		22	80:	al year	end	ing Oct	obe	2 31
Particulars Eunicipalities:		1918		1919		1920		921
Account)  Profit or Loss on sales of power-	e de la companya de l	68,760		93,317	***	160,198	-ikg	221,52
To Savern System To Sundry Consumers		9,299		1,691		25 4 5 5 5 4 .		1.201
Ket Amount	3	78,050	\$	65,008		151,416	100	020,599
Operating Cost	S. S	24,913 53,146		35,360 59,640	***	57.709 93.707		01.759 L38,840
Total Expenses	-	76,059	***	95,008	*	151,416	14.0	120,599
Dalance	* ***	MIL		111		Nil		H13
Devern System:	*	34,541	4	26,961		436	•	6,418
Operating Cost Fixed Charges	*	7,186 18,056		8,298		2,130		1.002
Total Axpenses	\$	25,242	*	25,270	*	9,218	*	6,390
Calance transferred to	*	9,200	*	1,691	4	8,782	*	28

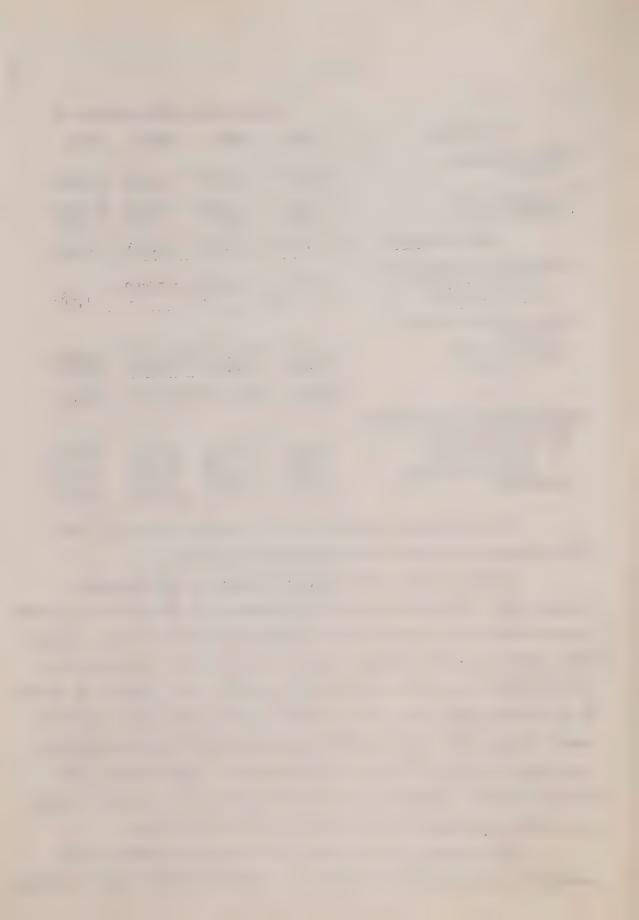


		*****	1.00	al year	anding Oc	stober 31	
Tarticulars		1918		1919	1920	1921	
Cundry Consumers Revenue	4	13,845	*	20,878	0 6,149	\$ 4,050	
Operating Cost Fixed Charges	-	2,500 6,735	3	6,537	9 2.341 6,600	\$ 2.638 2.492	
Total Expenses	\$	9,235	*	19,125	0 9,241	\$ 5,330	
Balance transferred to- Contingent Reserve Runicipalities	4	4,610	å	1,753	\$ 3,092	1,261	
Together (per Operating Account) Operating Cost Fixed Charges		34,599		50,203	462,180	3 35,599	
-		77,937		89,200	107,696	146,720	
	\$1	12,536	\$1	39,403	\$169,075	\$232,319	
Percentage of Fixed Charges to Total Axpenses For Municipalities     Severa System     Sundry Consumers Combined		68.08% 71.56% 72.98% 69.26%		62.76% 67.16% 65.81% 63.90%	61.89% 76.90% 74.67% 63.40%	62.94% 84.32% 46.78% 63.15%	

Power furnished in 1921, to the Walkerton Quarry at a cost of \$3,217.65 is included above with Sundry Consumers.

It will be seen from the above summary of the operating account, that the municipalities were charged with the cost of the power and the distribution thereof and with that proportion of fixed charges which pertained to the power supplied; also, that the municipalities in this dystem obtained over the whole period a small measure of relief by the crediting to them of the profit from the sale of power to the never dystem. The power sold to sundry consumers was charged with its proper proportion of operating expenses and fixed charges, and whatever profit or less was realised or incurred, was, (except for the year 1921), transferred to the Reserve for Contingencies.

The operating results shown above are those stated in the published accounts of the Commission. A credit adjustment of 11,809.40.



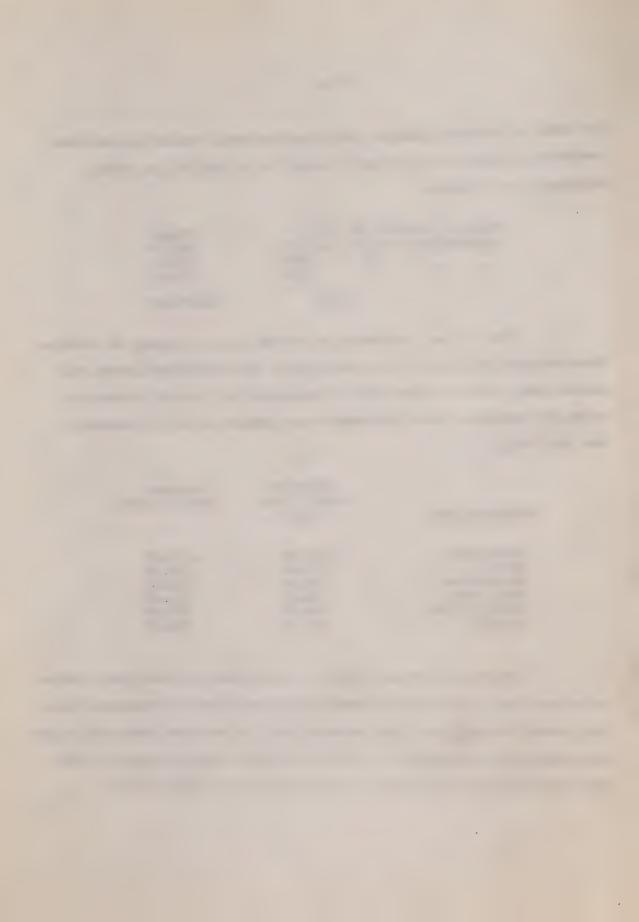
in 1919, of interest charges, owing to the small ascent has not been reflected, either in the above summary, or in Axhibit Is, being applicable as follows:

Year	r to Go ending *	lober 31, 19; October 31,	1917 1918 1919	3 300.00 750.00 750.00 89.40
		Total		\$1,889.40

from municipalities and the rates charged for electrical power, we would state that in August 1922 an adjustment of interior rates was made, the revision being retrocctive to January 1, 1922, affecting the following:

Municipality	Original Interia Date 1922	Revised Interim Rate
Chatsworth	\$ 60.00	\$ 70.00
Dundalk	50.00	55.00
Flesherton	48.00	55.00
Owen Sound	30.00	40.00
Grand Valley	70.00	60.00
Hanover	40.00	30.00

The rates shown on axhibit In in respect of the actual sales price per horse power of electrical power furnished the National Portland Coment Company have been reduced from the contract price of \$30.00 per horse power, referred to in further detail later, during the two years ending October 31, 1919, as explained in the following:



# During Fiscal Year ending October 31, 1918 -

Fower was furnished the Company for the months from May to October, both inclusive and the billing of the aggregate horse power for this period, on the basis of \$39.00 per amum, per horse power, amounted to whereas the horse power averaged on the amumal basis for cost purposes makes the rate equivalent to \$13.90 per horse power per amum. This latter basis with reference to averaging horse power was necessary, for sake of uniformity, under the cast plan adopted.

\$13,845,22

## During Fiscal Year ending October 31, 1919-

Fower billed during this period, averaged 715.8 horse power for the twelve menths, which at the contract price of 539.00 per horse power, aggregated from which was deducted an allowance, in patisfaction of a claim, in amount of

327,915,21

7,037.13

leaving, as stated in Exhibit la as revenue for the period equivalent to \$29.17 per horse power.

\$20,878,08

In respect of the contract and of the claim just referred to the following information is given:

The National Fortland Coment Company of Durham, on August 3, 1917, entered into a contract with the Commission for the delivery of electrical power at the rate of \$30.00 per H.P. pur annum. On August 30, 1917, an agreement was entered into between the Hydro-Alectric Power Commission of Ontario, the National Portland Coment Company, and the Standard Rank of Canada, wherein the Commission consented to the sale by the Customer of certain power plant and equipment upon which the Commission had a lien, the Dustomer agreeing to deposit in enerow with the Standard Rank of Canada \$30,000.00 of the proceeds thereof. The bank undertack to hold the same and current interest to asswer the claims of the Commission for damages or expenses that might be indurred by it during the period of three years by reason of default by the Customer. The Coment Company claimed damages arising from interruptions etc. during the period from May 1918 to December 31, 1919, due to alleged inadequacy of the Commission's equipment. The following accounting entered into the settlement.



Charges

For Power - May 1918 to October 31, 1918

313,045,22

Hovember 1, 1918 to October 31,1919

27,915,21

November 1, 1919 to December 31,1919

4,999,30

For Testing -

90.00 \$46,849.73

Credits received on account: November 30, 1916 October 14, 1919

\$ 5,000.00 2,552,07

7,852,67

Balance due the Commission (exclusive of interest)

\$39,296,86

in respect of which an agreement was reached for the following acttlement:

Amount deposited in escrew with the Standard bank of Canada under ogressent dated August 30,1917 and turned over to the Commission in accordance with the terms of the agreement of February 6, 1920

\$30,000.00

Interest earned thereon for period from August 30, 1917 to Pobruary 6, 1920

2,259.73

Togother

\$32,259.73

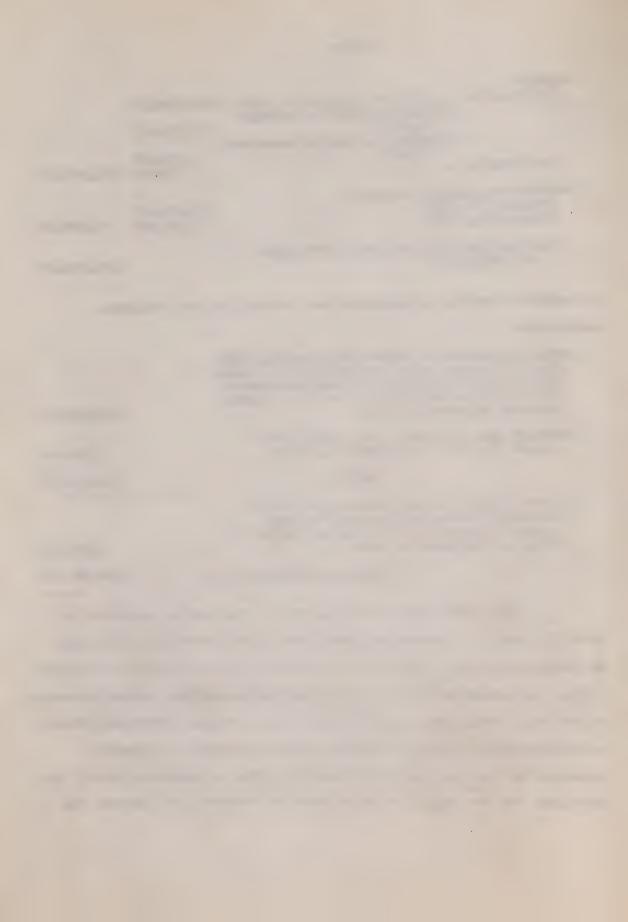
Relance allowed in satisfaction of Cement Company's claim for damages, charged against revenue of year ending Detober 31. 1919, as referred to above

7,037.13

Total, as above-

939,296.86

The excess cost of power, on the cost basis, assuming to \$898.51, over the revenue received, during the period from July 1916 to October 31, 1919, from sundry customers is the Village of Horning's Mills, was accusulated on the books as a charge against those customers. In the year 1921, these accumulations, with interest, were considered as uncollectible, and were charged off and included in Overhead Authorses for the year ending October 31, 1921, as shown in Excitate 1b. Contracts for the supply of power were not entered into between the

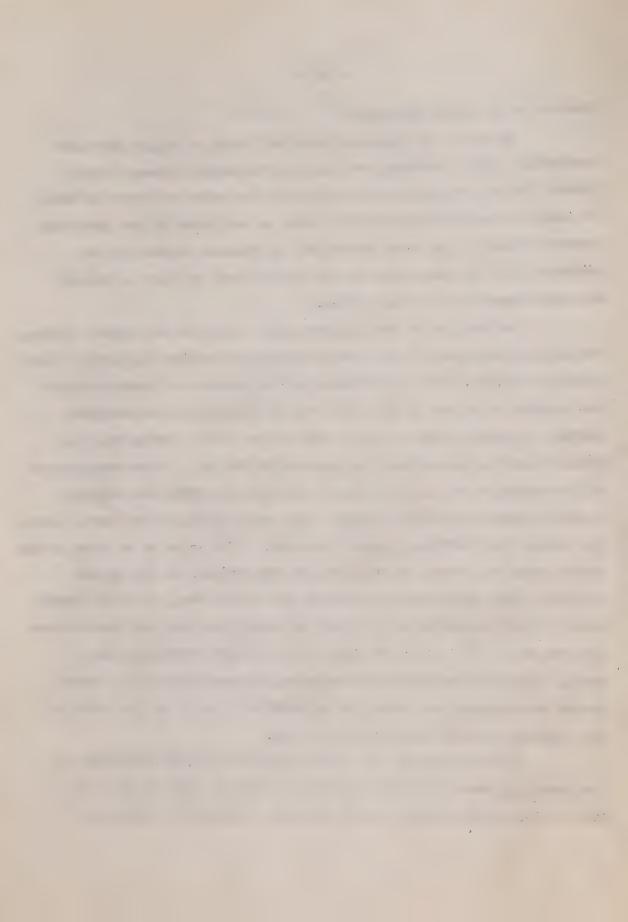


Commission and those consumers.

It should be mentioned that the profit of \$2,236.00 since October 31, 1917, resulting from sales of electrical power to the Severn System, and the loss of \$1,261.00 from sales of power in 1921, to Sundry Consumers in Borning's Mills, as set forth in the operating account summary, have been transferred to revenue account of the municipalities in proportion to the amounts paid by them in respect of maintenance costs of the System.

For the period from October 1916, the time the Sugenia System, began supplying power to the Severn System, to October 31, 1917, a book profit of 19,935.28 was distributed to the accounts of Municipalities and applied at stated by Mr. Clarkson, in reduction of maintenance costs. The net profit on power sold to the Severn System over the entire period of operations, aggregated \$12,171.00. Prom commemorate of the operation of the tie line, to October 31, 1920, the Mugenia System charged the Severn System a flat rate of \$25.00 per horse power, per armue, for electrical power furnished. The price to be paid by the system receiving power by means of such connection, to the system supplying such power, and the cost of the power, etc., shall be determined by the Commission as provided for under Sections and Sub-Sections 250,23d and 24 (1), 24(2) and 24(3) of the Fower Commission Act. During 1921 as imitoated in the Operating Account Summary the Severa Lysten was charged with power, at approximately cost, on the basis of the approved plan of cost finding, in use,

The book loss to the Sugenia System of \$8,782.00, (shown in the Operating Account Summary) resulting from the sale of power in 1920 to the Severa System, is, in general, explained as follows:



Since the latter part of 1916 the tie line, connecting the Severm System with the Sugenia System, has been in Speration, as mentioned above, and from that time to October 31, 1921 the quantity of power supplied each year by Sugenia System to Severn System, as stated by the Sugineering Department of the Commission, is as follows-

Year ending October 31 -	Average H.P. Per Month (Adjusted)
1917 1918 1919 1920 (not interchange)	1,635 1,337 1,047 17 46

Until 1921, in which fiscal year the Severn System paid the Eugenia System an amount sufficient to cover the costs of power as determined under the plan used therefor, power was charged for, at a flat rate of \$25.00 per horse power based on the net quantity of power supplied one System to the other.

Prior to 1921, when apportionment was made to each System on the basis of the quantity of horse power furnished commanders by the two Systems, the entire capital cost of the tie line was set against the Severn System, for cost purposes only, together with its portion of the generating plant etc. of the Sugeria System, (based on the horse power), and the entire amount of fixed charges applicable to this investment was included with other expenses in the cost of power, as apportioned on the cost of power, as apportioned on the cost plan adopted, to the Severn System. In 1920 the net horse power charged to the Severn System. In 1920 the net horse power and while the net power furnished the Severn System, changed, the full cost of the tie line was attributed to Severn, the fixed charges being based on the investment values so determined. The following data show for each year the met horse power furnished Severn System, the portice of Sugenia investment applied thereto and the fixed charges being based on the investment the portice of Sugenia investment applied thereto and the fixed charges being based on the fixed charges began on that investment.

Capital	Invostment
---------	------------

Fixed Charges

None	Net L.F.	Development Plant etc. (Fortim)	Tie Line	70 (42)	Interest	Renow.1	Sinking
1919 1918 1920 1921	1,635 1,337 1,047 17 46	\$307,264 210,085 168,404 5,085 10,005	303,317 94,560 94,137 93,011 50,043	\$400,581 305,245 362,541 98,096 60,049	318,789 12,206 12,259 4,470 2,732	\$7,110 5,850 5,713 2,618 1,575	31,081

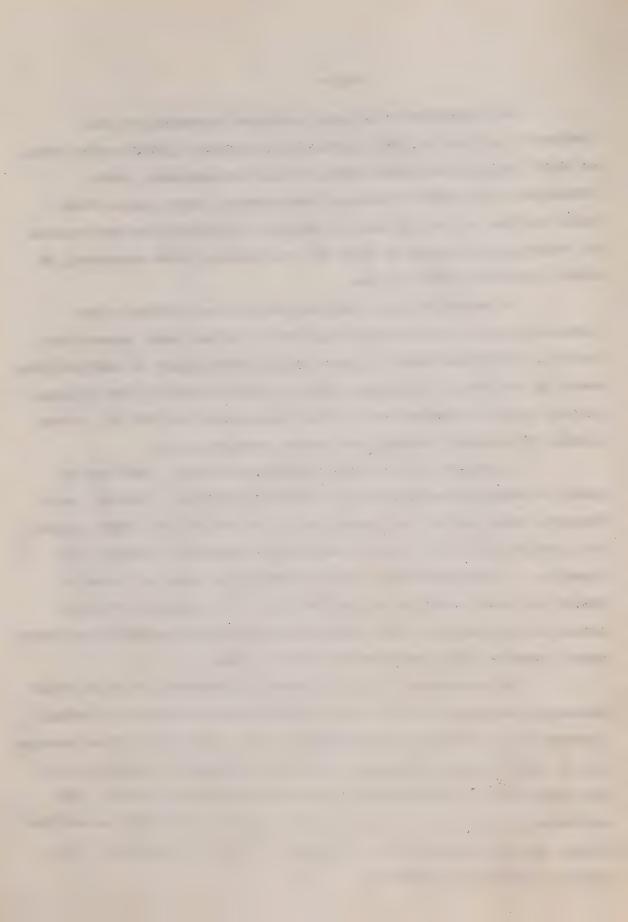


The aggregate horse power furnished consumers of both Systems in 1921 was 10,139.3 horse power, of which 5,440.6 horse power, or 33.7% and 4,698.6 horse power, or 46.3%, respectively, were furnished by the Severn System and the Augenia System, and on this bagis the cost of the tie line in 1921 was apportioned for the purpose of determining the cost of power for the Sugenia System consumers, of which the Severn System is one.

As requested, the Chief Engineer of the Commission has furnished us with a assorandum relative to the tie lines between the Wasdell, Severa and Engenia Systems and the development at Swift Rapids, owned by the Town of Orillia, and for your information we have attached to this report a complete copy of that assorandum (Exhibit IX), which should, we believe, receive your careful consideration.

In respect of the loss of \$3,092.00 in 1920, from sale of power to sundry consumers, (in this period the Hational Portland Coment Company, being the only consumer), as in the case of the Severn System, the greater part of the cost is made up of charges for interest and renewals. Larger quantities of horse power were sold at a rate of \$39.00 per horse power in the earlier part of the fiscal year than later, as on January 1, 1920, the rate was increased to \$60.00 per horse power, service being discontinued August 1, 1920.

The Accountant of the Cosmission has prepared on an estimated basis each wouth, for the ten months ending august 31, 1822, operating accounts of this System, and excepting for the estimates of fixed charges and of extraordinary maintenance, included therein, the accounts are on the same basis as for the fiscal year ending October 31, 1921. The estimates appear to be on a sound basis and will, of course, be modified to meet the actual cost, upon accertainment thereof at the time of the annual adjustment of accounts.

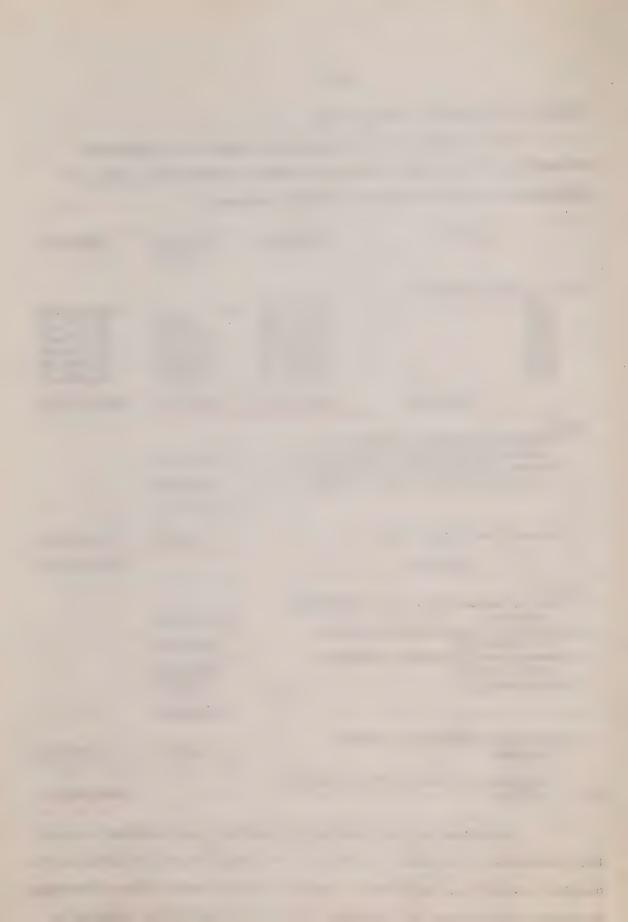


## REGERVE FOR REMEMALS - \$181,630.21:

The balance in the Reserve for Renewals in respect of properties of the Augenia Dystem amounted at October 31, 1921, to \$181,830.21, a brief analysis of which follows:

Period	Provinion	Interest at 46	Together
Year anding October 31- 1918 1919 1920 1921	3 14.870.87 23,043.56 26,121.05 28,746.24 29,972.45 44,301.87	\$ 502.52 1,527.89 2,633.71 3,889.03 5,243.49	\$ 14,570.87 23,620.38 27,648.94 31,379.95 33,661.48 49,545.35
Together	\$156,756.04	313,876.94	\$180,632.90
Add- Additional reserve provide accord-hand equipment pu Reserve applicable to equiterasferred from other a	rchased react	\$ 4,054.02 2,806.57 \$ 6,890.59	
Interest on above items		745.79	\$ 7,636.38
Togother			\$168,269.36
Deduct- Cost of overhauling and returbines Accruals on transformer and to Calkerton Accruals on cross-arms, bracte, removed Sundry charges	ped	\$ 3,333.60 1,182.80 1,279.92 528.02	
Interest applicable to aboundaries	**	3 6,324.04	6,439,15
Islanco, per books, at Co	ctober 31,		\$181,830.21

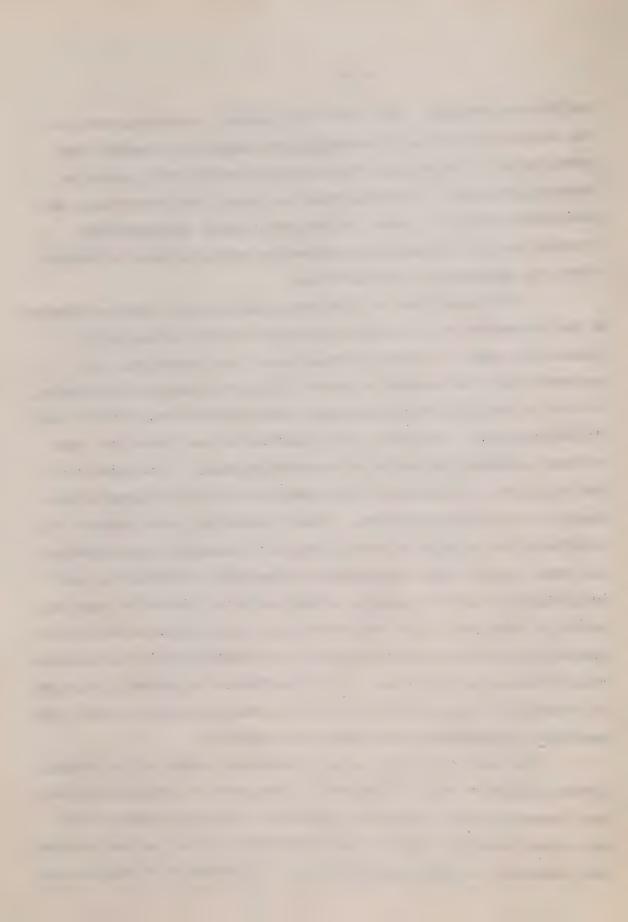
Additions to the Reserve for Renewals are provided through the inclusion in the cost of power, of an annual charge of 2.75% of the Capital investment, exclusive of certain annuals hereis later discussed, together with interest at the rate of 4% per somes on the balance in



the Reserve Account. This method of providing additions, known as the sinking fund basis, is equivalent to a so-called straight line provision of approximately 4.25% on the properties for a period of twenty-three years. That is, while the annual provisions under the two methods differ in amount, either method would accumulate the required sum in approximately twenty-three years, provided so charges were made against such accumulations.

The annual rate of 2.76% was determined by a reclassification of the properties of the System as shown by the book accounts at October 31, 1916. The reclassification of the proporties, the estimated life and residual values of the various classes of property. as made by the Engineering Department of the Commission, are set forth in Exhibit III. Included in the properties of the System are Itoms of such a substantial nature of construction that, in the opinion of the Angineers, no provisions for renewals in respect of these investments are considered necessary. These properties, which consist of a reinforced dan together with expenditures in connection with floodage and water rights, etc. represented an investment at October 31, 1916 of \$319,297.00 and this amount, or a relative one, depending upon the extent of additions in the respective years, has been eliminated from the capital investment before applying the renewal rate in the calculation of the annual provision. Any expenditures on account of rapairs, or renewals of the above properties, comparatively small in amount, are currently charged into amintonunce and operations.

An analysis of the Capital Investment Account of the Augenia System, similar to that of October 31, 1916, shown in Exhibit III, has been prepared by the Angineering Department of the Commission as of more recent date and with this new analysis as a basis, we are informed, the Commission is giving consideration to the reduction of the rate and



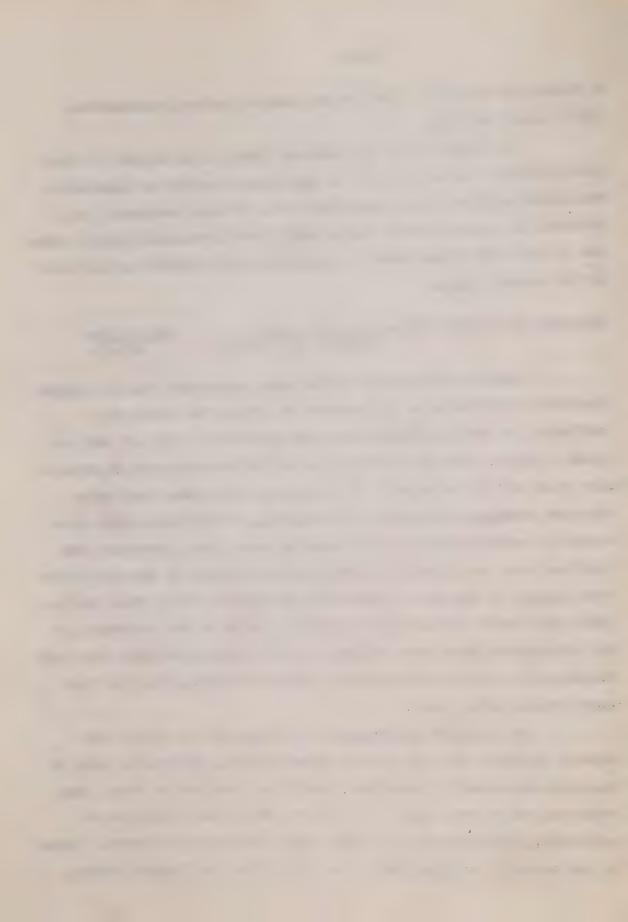
a consequent revision of the Renewal Reserve Account, retreactive, for a period of years.

In providing has been ands for respect in respect of gural line properties since all lines on the Sugania System are operated by the cumicipalities, which, under the terms of their contracts, are required to provide reseal funds, retainable by them, and scalarst which are charged such expenditures in connection with remember as are made by the Kamisipalities.

ALESSAVAG FAN SINCISC NUMD - (Bagenia System 513,156.54-

Sheetric Power Commission is required to provide "an annual men sufficient to form in thirty years with interest at four per cent per annual a sinking fund for the repayment of the advances made by Ontario under this Act for the payment of the cost of the works," and under the same Section, the second main paragraph, "a numicipal corporation which has entered into or shall hereafter enter into a contract with the Commission for a supply of power may be relieved by the Commission free payment of any sum an account of the sinking fund account for the first five years, during which payments are made to the Commission by the corporation under such contract, and the secunis required from such corporation an sinking fund account shall be payable during the then next ensuing thirty years."

The basis for ascertaining the amount of the reserve for sincial fund and year is, for the Superis System, the capital cost of the power development, transformer stations, transcission lines, etc. completed and in operation. The method used by the Commission in calculating the ascent of the sinking fund reserve of the Augenia System is the asset as that described in the report upon the Diagram System.



As permitted under the Act the collection of sinking fund from the twenty-three municipalities in the Augenia System was deferred for a period of five years from the date on which they first received clectrical power.

The date each emmicipality first received electrical power is shown on Azhibit V. Seventeen municipalities had not, at October 31, 1921, been receiving electrical service for a full period of six years, therefore the sinking fund requirement, amounting to \$21,608.57 in respect of these municipalities was deferred until such time as the bix year period, in each instance, has elapsed. The amount of the sinking fund requirements for the year 1921, being the initial assessment against six municipalities and others taking yover for a period of six years, is as follows:

> Six Municipalities Severn Cystem Walkerton quarry

\$11,622,50 1,000.04 453.32

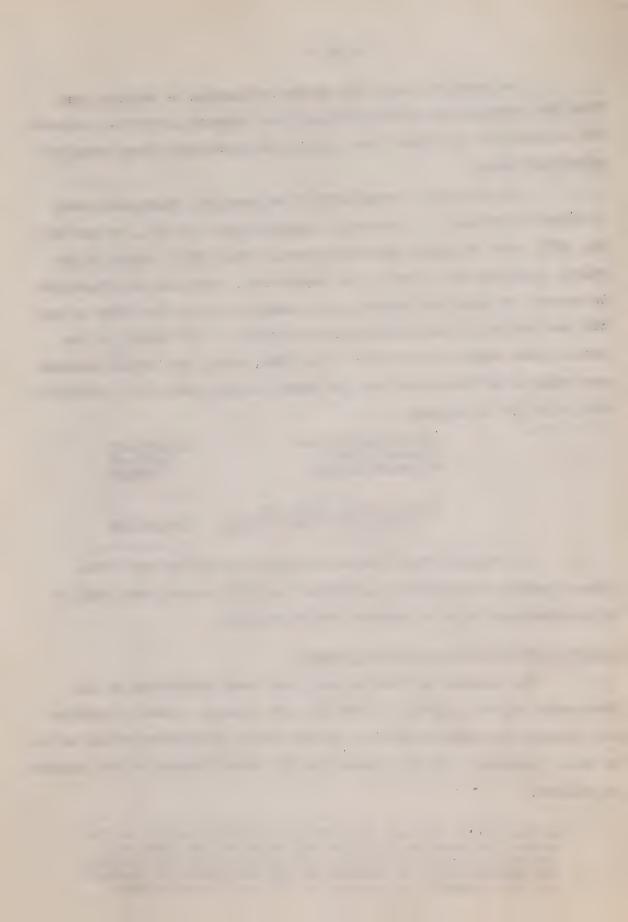
Total sinking fund provision at October 31,1921 313,156.54

The sinking find reserve in respect of the Augenia Mural Lines assumted to \$144.71 as at October 31, 1921, having been paid in by the Eunicipalities of Markdale and Flosherton.

## REGIETTE FOR CONTINGENCIES - \$12,079.58:

The reserve for contingencies has been established by the Cormission for the purpose of providing for special lesses or expenses not arising at regular intervals and not wholly applicable to the period in which incurred. In this commection the Power Commission Act provides as follows:

<sup>&</sup>quot;The Commission may set spart out of the moneys coming to its hands from time to time from any municipal corporation, railway company, or distributing company such sums as may be sufficient in the opinion of the Commission to provide for the renewal, reconstruction, alteration and repair



of the works constructed and operated by the Commission, and to meet any unforescen expenditure caused by the destruction or injury of any such works." (Section 14 b of the Act).

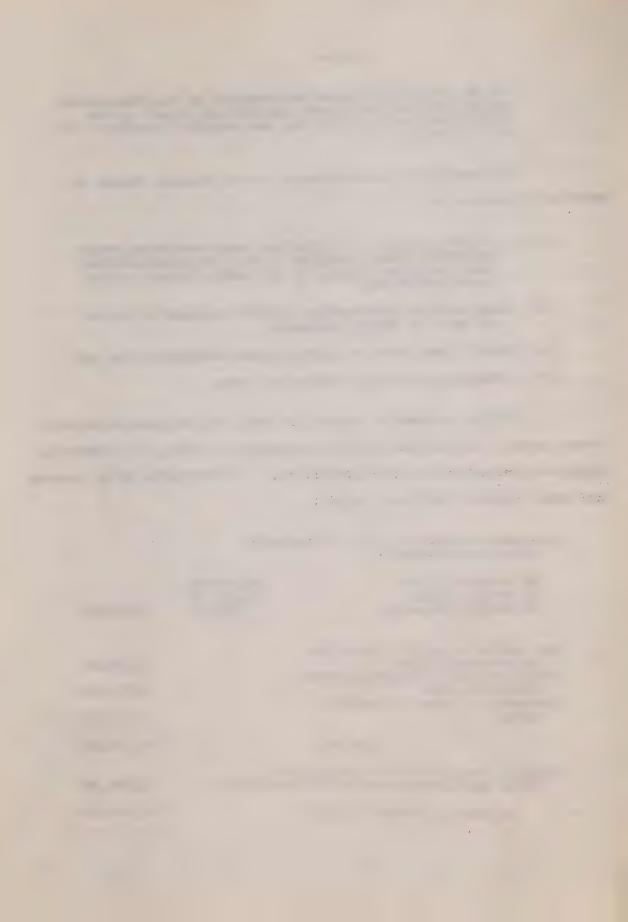
The reserve for contingencies for the Sugaria System is provided by means of -

- (a) An annual charge of twenty-five cents per horse power on average power supplied in year to sunicipalities comprising the System, to the Severn System and to sundry consumers
- (b) Other credits representing profits realized on cales of power to sandry consumers
- (c) Profit from sales of miscellaneous equipment, etc. and
- (d) Interest at four per centus per assum

Tor the purpose of showing in detail the changes which have taken place in the account since its incoption in 1917, to october 31. 1921, we have attached hereto Exhibit IV. The following brief summary has been prepared from that Exhibit:

Assounts included as a part of the cost of power delivered -

	9.00 6.77 7.42 \$ 4,987.28
Net profit on sale of power to private companies Profit on sale of miscellaneous equipment, etc. Interest at 4 per centum per annum	3,271.94 9,764.73 2,411.30
学及影響和這樣的	(20,465.25
Deduct: Expenditures and charges to cover contingencies met with (Exhibit I Belance at October 31, 1921	7) 6,385.67 \$12,079.58



### ACCOUNTS WITH MUNICIPALITIES:

Accounts with sumicipalities are divided by the Commission, in the main, as follows:

Power Accounts Receivable

Due by or to Eunicipalities in respect of
the Cost of Power furnished them as
determined under the Power Commission Act

## Fower Accounts Receivable - \$46,539.57;

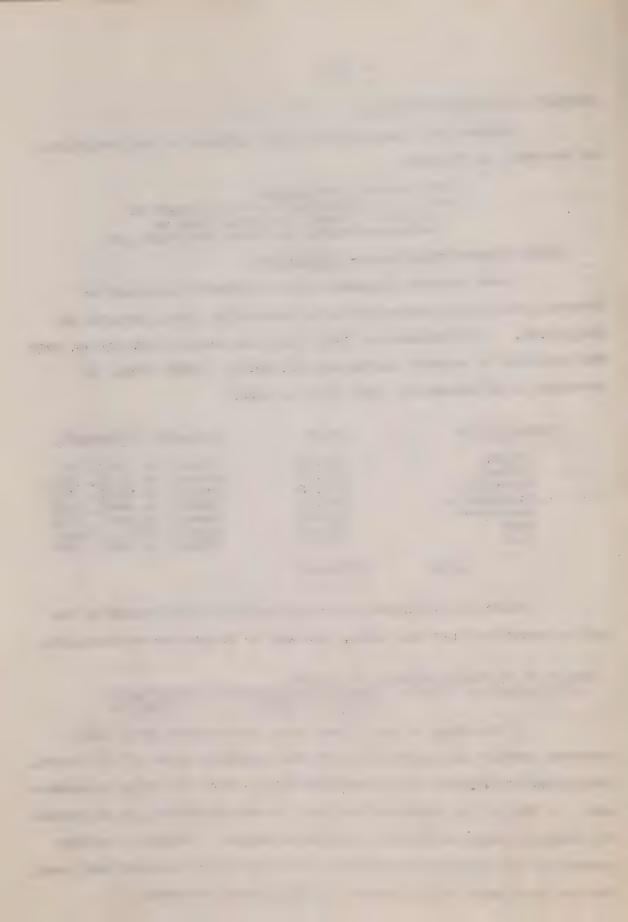
These accounts represent unpaid balances in respect of interia power bills rendered which at October 31, 1921, excunted to \$46,539.57. At September 20, 1922, the date inquired into by us, with the exception of excents appropriating \$3,735.43, listed below, all accounts as of October 31, 1921 had been paid:

Municipality	Amount	Increased Assessments
Arthur Arthur Markdale Orangeville Chelburne Tera Tara	\$ 625.00 9%8.33 483.82 487.34 831.80 204.00 71.64	Jamuary to April. 1920 Jamuary to April. 1921 Jamuary to April. 1921 Jamuary to April. 1921 Jamuary to April. 1921 August. 1920, balance Jamuary to April. 1921
Total	\$3,735,43	

These balances, upon which interest is being charged at the rate of seven per cent per annum, are said to be good and collectible.

Due by or to Euclidealities in Respect
of the Cost of Fower - (Accounts Receivable - \$103,477.55Accounts Fayable - 2,758.90-

At the close of each fiscal year, the interia power bills rendered monthly are adjusted to meet the operating costs of the System, determined as provided for in Sections Sc and 23 of the Power Co mission Act. A list of the balances due by or to municipalities, as at October 31, 1921, is given in Exhibit V, attached Lervic. Following are the amounts of the adjustments required of interim bills rendered each year, for the four years ending October 31, 1921 (conts omitted):



#### Particulars

Year ending October 31 1918 1919 1920 1921

Assumts due by certain Municipalities, being the expess of the cost of power over the sums charged therefor during the period

9 5,964 \$13,276 \$40,840 \$32,913

#### Neduot-

Amounts due to certain Runicipalities, being the excess of the sums charged for power furnished, over the cost of power during the period

15,058 4,817 - 10,774

Net amount due by or to certain aunicipalities, based on the adjustment of costs as provided for by the Act

\$ 9,094 8,459 \$40,840 \$22,139

As a result of the charges or credits, such as the above, as at October 31, 1921, as shown on Exhibit V, one numicipality had a credit balance of \$2,758.90, representing overpayments, interest credits, etc. and twenty-two municipalities had debit balances apprecating \$103,477.55, representing under-payments, interest charges thereon, etc.

For the purpose of ascertaining the length of time the debit balances, included in the sum of \$103,477.55, were outstanding, we have prepared and have attached hereto (Exhibit VI) a statement which shows, in respect of the account due by each municipality, at October 31, 1921, and still unpaid September 20, 1812, the credits by each or other sources a plied in reduction of such balances during the period from October 31, 1921, to September 20, 1922, and if not fully paid, the period by fiscal years, over which the balance extends. With reference to the amounts credited during this interval, the following is given:

Particulars	Eunicipalities	Relance October 31 1921	Amount Credited Since October 51,
Accounts partially paid Accounts with no Credits	1.8	\$29,893.40	\$ 4,446.47
Total Fer Exhibit VI	18	392,208.37	\$ 4,440.47
Accounts fully paid	4	11,272.18	11,272.10
Total	63.45 60.62	103,477.55	\$15,718 .65

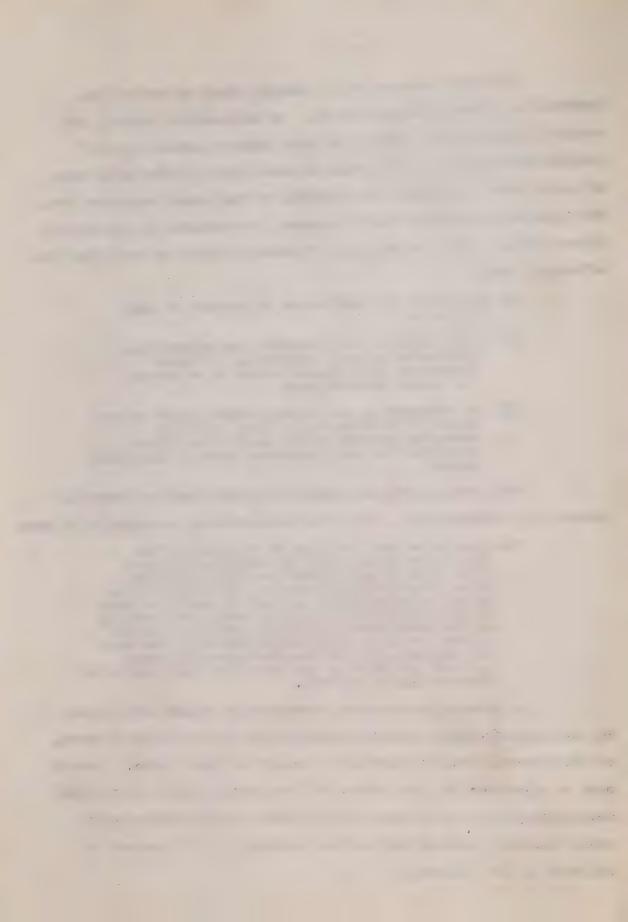
We would recommend that a careful study be made of the information presented on Exhibit VI. In explanation thereof, the charges or credits are, except for each payments marked (c), in respect of adjustments of the interim power bills to the actual cost of power determined under the provisions of the Power Commission act. The interest on debit or credit balances is calculated at the rate of 4% per minum. The more important features to which we would draw your attention, are \*

- (1) Relatively for credits are in respect of each
- (2) The anjority of the accounts show charges one year after another indicating, in these instances, that interim rutes do not cover the actual cost of power
- (3) As indicated by the column handed "years" at the right of the October 31, 1921, balances, numerous accounts extend back to the first year that the sumicipalities received electrical power

With reference to the extension of the time for payment of accounts by municipalities, the Power Commission Act provides as follows:

"The Commission may from time to time during the first three years after any municipality shall first begin to take power from the Commission extend the time for payment of the same payable by any municipality or any part thereof, and such municipality shall pay to the Commission interest on the amount which may be in arrear or for the payment for which time is extended until the payment thereof, at such rate not exceeding seven por cent par assume as the Commission may determine." (Section 25a of the Act).

As previously mentioned, consideration is now being given by the Commission to a reduction, retreactive over a period of years, of the reserves made for renewals in respect of this System. Should such an adjustment be given effect to, the account due by or to each municipality will, of course, receive credit for its proportionate amount thereof, provided the previous practice in this respect is followed by the Commission.



#### CALARA .

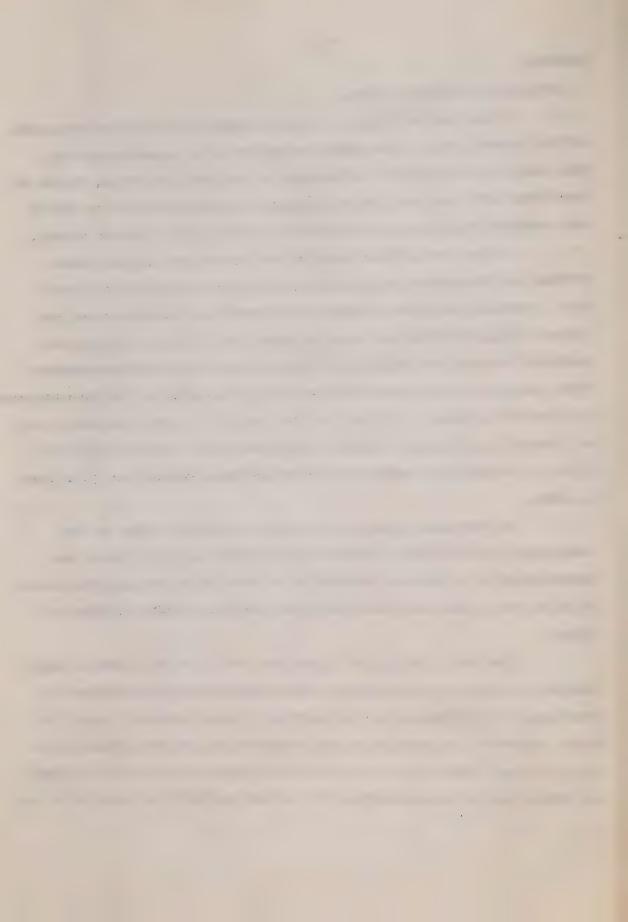
## Contracts re ingenie Cysten-

While the contracts in force in connection with the operation of the Augenia System have been examined by us in a general nameer, only one for the Eunicipal Corporation of the Town of Arthur, stated to be of standard form, has, as an example, been examined into in detail and excerpts therefrom are set forth on Exhibit VII, attached heroto.

between the Commission and electrical power consumers, it was found that a contract had been entered into between the Commission and the Police Village of Alton and that no power has, as yet, been directly furnished to this municipality. Enabling and Money By-laws covering Hydre service to the Municipality of Alton were voted on by the taxpayers on January 15, 1917. Application for a supply of power was made, and on January 31, 1917, an agreement was forwarded to the authorities of Alton to be completed and was not returned fully executed until January 5, 1919.

In September 1916, an agreement was entered into by the Commission with the Alton Foundry Company for a supply of power and construction of a line was undertaken to serve this Company, the understanding being that the line would also serve the Folice Village of Alton.

The Police Village of Alton was, and is at the present time, served by power from the Cataract Power Company and the existence of the lines of that Company on the streets of Alton created a condition which prevented the Camalasian from constructing its own system within the Village. The height of the Cataract Company poles wavied to such an extent that it was impractical to sither evertuils or waterfaild them



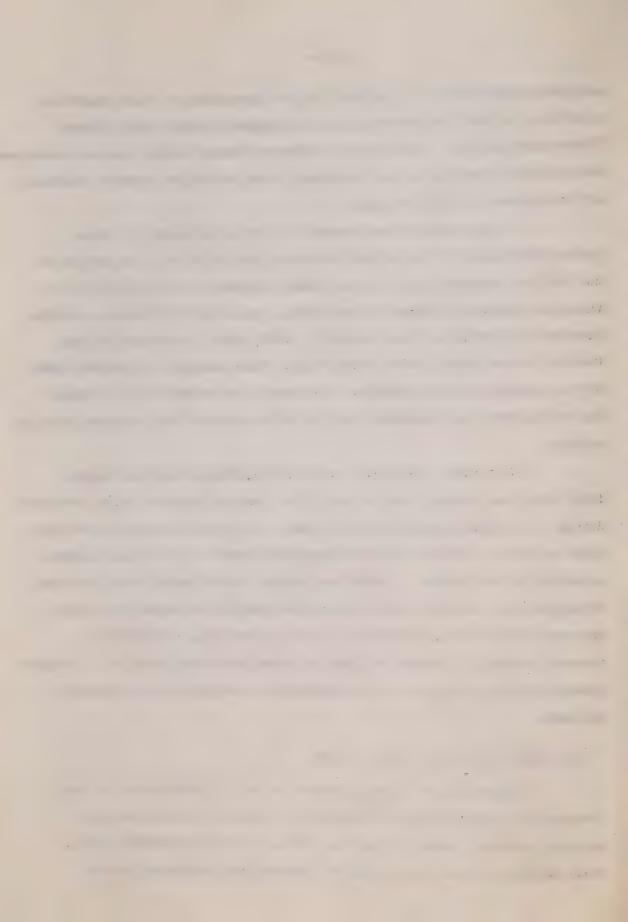
and the municipality was notified by the Commission of this condition: also that it would be impossible to construct a system until these lines were removed. Although the Cataract Power Company has no franchise the sumicipality has, we are informed, taken no action cousing vacation of the streets by that company.

A formal notice was served on the Municipality of Alton
by the Commission to the effect that the Commission will be compelled
to bill the municipality with the fixed charges on the investment in
this line between Orangeville and Alton, inclusive of interest, sinking
fund and depreciation from January 1, 1919, until the municipality
begins to take power, after which these fixed charges will become part
of the regular cost of service. We have been informed that a reply
has not as yet been received from the Alton authorities relative to this
matter.

This line, built at a cost of \$10,481.18, has been lying idle since the closing down of the Alton Foundry Company, which occurred during the latter part of the year 1918. The fixed charges since that date have been included in the charges for power to the other municipalities in the System. Should any amount be collected from the Town of Alton, as a result of the bill to be rendered in respect of fixed charges on this line, referred to in the foregoing, distribution thereof should, of course, be made to those municipalities on a proportionate basis, according to the mass with which they were originally charged.

## Contracts re Augenia Mural Lines-

Secoryts from a new agreement with the Corporation of the Township of Artemenia dated October 29, 1921, and supermeding the original contract dated February 8, 1916, is given on axhibit VIII. Prior to the date of this contract, revenue was collected by the



Numicipalities which operated and maintained the lines. It will be observed, by reference to Exhibit VIII, that it is stipulated these lines be operated by the Commission.

#### CARLEMAN,

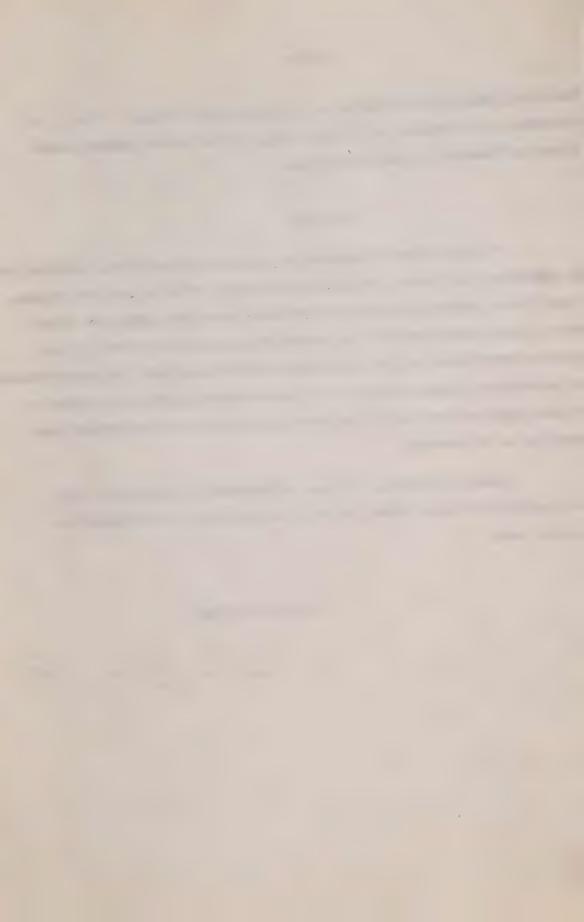
of combining the Severn, Sugeria and Vandell's Systems into one System.

These three systems are comewhat dependent upon each other for power supply, they are physically connected for exchange of power and the average power costs in the past have not been seriously disproportionate. In determining power costs to the various municipalities the costs of transmission can as readily be taken into account if the systems are combined as at present.

Should you desire further information in connection with the accounts of this System, we shall be pleased, upon request, to furnish same.

Yours very truly.

Price Watchen R.



#### MYDRO - BIRCTRIC FOWER CONFISSION OF ONTARIO

#### TUGENIA TESTEN - OPERATING ACCOUNT

	For the Fiscal Year ending Outober Sl						
Partioulars	1918	1.919	1930	1931			
REVENUE: From Municipalities From Private Companies and from Severn System	\$ 68,760.40 48,386.67	\$ 93,317.12 47,839.33	\$160,193.34 6,585.33	\$221,832.58 10,486.96			
Total Revenue	\$117,147.07	9141,156.45	\$166,783.67	\$232,319.51			
COST OF OPERATING INCLUDING PORTION OF ADMINISTRATIVE EXPENSES:  Power Purchased (temporary period of breakdown)  Power Development and Transformer Stations -  Cperation -	3 4.727.97	3 374.50	\$ 9.971.53	3 11,993.26			
Labor Vaterial and Vapense	1,180.84	2,993.30	3,177.97	4,830.63			
Land, Buildings and Structures Electric Equipment Switchboards and Waters Wiscellaneous Equipment Tames, Ingurance and Coneral Expense	3,160.78 1,427.77 3,186.37 2,441.90 786.44	1,459.60 1,554.98 1,556.52 2,366.07 2,065.45	1,638.72 1,425.98 1,323.56 2,520.41 1,904.13	6,410.36 5,223.09 1,365.70 2,220.09 2,669.19			
Transmission Lines - Maintenance - Patrolling Pole Lines Conductors and Cables Miscellaneous Transmes Overhead Expenses (nor attached Statement)	4,978.26 1,228.85 981.22	4,520.28 1,704.86 938.82 531.78 22,026.35	3,190.37 2,174.86 1,111.54 423.85 33,316.80	9,823.91 1,079.87 798.26 52.93 39,132.25			
Total Expenses	\$ 34,599.24	\$ 50,203.35	9 62,179.71	3 85,599.54			
Balance before deducting Fixed Charges	9 82,547.83	\$ 90,953.20	\$104,603.96	3146,719.97			
Deduct Fixed Charges - Interest on Capital Investment Provision for Nenewals Provision for Cambing Fund Provision for Continuousies	\$ 80.993.32 36.121.05 1.022.85	\$ 59.366.32 38.746.24 1.087.56	\$ 76,884.61 29,972.45 838.75	\$ 88,086.94 44,301.87 13,156.54 1,174.63			
Total Fixed Charges	\$ 77,937.12	\$ 89,200.12	\$107,695.81	\$146,719.97			
Het Profit or Loss = (Representing profit or loss from sale of power to private communice)	\$ 4,810.71	\$ 1,753.08	\$ 3,091.85	_ •			
Deduct - Bet Profit or Loss from cale of power to private companies, transferred to Reserve for Contingencies	4,610.71	1,763.08	3,091.85	-			
Balazos	3143	711	Hil	Mil			



#### HYDRO - SLICTRIC POWER COMMISSION OF ONTARIO

#### SUGBRIA SYSTEM

AMALYSIS OF REVENUE FROM MUSICIPALITIES AND OTHER CONSUMERS, TOGETHER WITH HORSE POWER LOADS AND NATES

	Year e	nding 00	tober 31, 19	18		Year	enaing O	ctober 31,		
									Interis	
Particulare	Revenue	Average Herse Power	Actual Cost per H.P. (adjusted)	Interim	Rates	Revenue	Average Horse Power	per H.P. (adjusted )	April 30, 1919	October 31 1919
MUNICIPALITIES:										
Alton Foundry Company (a) Arthur Chatsworth Chesley Dundalk Durham Elmwood (April 1918) Flesherton (a) Grand Valley Hanover Holstein Horning's Mills Harkdale Hount Forest Heustadt (a) Grangeville Owen Sound Shelburne Tara (February 1918)	3.336.10 5.388.19 980.64 4.445.44 1.930.81 1.866.34 1.161.02 1.013.81 2.129.64 7.354.66 912.56 668.71 1.388.31 1.388.31 2.45.99 906.29 906.29 3.24.88	90.9 102.0 31.1 95.5 83.0 69.8 27.5 270.3 6.4 - 67.0 119.1 8.5 127.0 1007.6 123.7	\$ 36.70 52.62 31.53 46.55 25.26 26.77 (e) 41.85 30.44 41.35 25.46 142.59 20.73 44.05 -30.18 20.05 27.94 (o) 101.97	E. E. H. plus	43.23 45.00 30.18 40.00 27.30 35.97 35.00 25.96 45.00 35.00 23.24 34.51 12.00 35.00 35.00	9.019.33 1.114.32 6.387.68 2.824.80 2.430.03 1.969.21 1.680.41 2.946.12 12.461.04 1.661.85 9.25.25 1.871.14 6.669.48 1.593.62 2.4.876.86 6.749.02 24.876.86 4.825.06	151.9 99.4 159.8 93.9 74.5 45.8 58.1 57.5 416.4 23.0 5.3 74.0 129.3 18.5 134.3 934.9 144.8	59.38 37.30 39.97 36.08 32.71 42.84 28.92 51.23 29.90 72.25 25.28 61.58 36.14 50.25 26.61 35.32 91.95	\$ 45.00 30.18 40.00 27.30 33.97 35.00 45.90 45.00 45.50 8.W 23.24 42.50 35.00 31.00 37.00	45.00 36.00 40.00 27.00 35.00 26.00 45.00 35.00 44.00 42.50 35.00 28.00 30.00 37.00
Total	\$ 63,760.40	2347.1	Sales Price			\$93,317.12	2567.4	Bales Price		
Estional Portland Coment Company	* - 4			8	20.00	500 000 00	715.8	\$ 29,17	\$ 39.00	\$ 39.00
(May 1918)	\$ 13,845.22	407.3	3 33.99	9	39.00	\$20,878.08 26,961.25	1047.0	(b) 25.75	25.00	25.00
Severn System	34,541.45	1337.0	(b) 25.83		25.00	50° A0T° SP	1041.0	(0) 20.10	20.00	20.00
TOGETHER as per Operating Assount (Exhibit I)	\$117,147.07	4091.4				\$141,156.45	4350.2			

#### MA THE

- (a) Exclusive of interest charges in the amount of \$839.40 for the years 1918 and 1919 on final payment made to Pise River Light & Power Company, Limited, for purchase of Grangeville, Shelburne, Horning's Mills System, and charged as a separate item to these municipalities in the year 1919.
- (b) Average horse power billed, reduced by line loss thereby increasing the flat rate of \$25.00 used in interim power bills.
- (c) Electrical power delivored to these municipalities during part of the year only, has been put on an annual basis.

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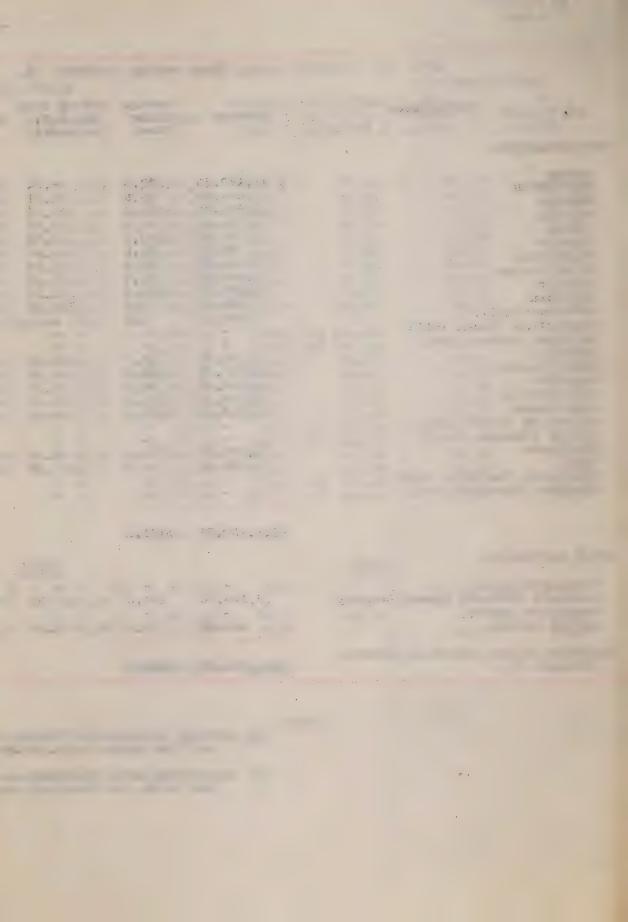
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	Year	ending	October 31,		m Rates	Year	ending	October 31,	, 1921 Interim	Hates
Particulars	Revenue	Average Horse Power	Actual Cost per H.P. (adjusted)	January 1 1920	October 31 1920	Revenue	Average Horse Power	Actual Cost per H.P. (adjusted)	To December 31 1920	To October 31 1921
MUSICIPALITIES:										
Arthur Chatsworth Chesley Dundalk Durham Elmwoed Flosherton Grand Valley Hanover Holstein Horning's Mills Kincardine (March 1921) Lucknow (January 1921) Harkdale Hount Forest Heustadt Orangeville Owen Sound Priceville (March 1921) Ripley (January 1921) Shelburne Tara Tecewater (December 1920) Uingham (December 1920)	\$ 11,142,49 1,624,22 12,518,32 4,180,61 4,705,82 2,775,58 2,519,82 4,628,83 25,697,22 1,485,38 1,594,12 	129.0 29.0 280.3 87.7 100.6 51.0 87.3 50.7 59.3 1 9.3 5.0 85.7 131.6 84.2 136.2 1132.2	\$ 86.37 56.01 47.67 46.78 54.42 43.97 76.26 43.32 156.49 	30.00 40.00 27.00 33.00 35.00 26.00 45.00 35.00 44.00	\$ 65.00 45.00 45.00 38.00 45.00 36.00 56.00 55.00 45.00 55.00 28.00 55.00 28.00	\$ 10,419,99 1,747,48 11,399,30 4,562,93 9,491,57 2,678,29 2,700,49 3,305,93 36,301,23 1,768,06 6,637,19 3,932,10 5,066,93 12,695,40 6,573,67 9,019,31 55,992,04 4,030,95 7,564,30 4,195,46 18,373,58	134.2 28.5 241.6 97.7 220.2 54.5 47.1 62.9 1040.7 9.5 58.0 39.3 65.2 155.6 122.5 142.1 1391.2 66.4	\$ 77.64 61.31 47.18 45.70 45.10 49.32 55.61 34.98 185.06 (c) 114.43 (c) 100.05 36.00 68.40 51.65 63.47 40.20 (c) 115.71 (c) 104.16 44.25 (c) 69.46 (c) 69.46	\$ 65.00 45.00 45.00 38.00 45.00 36.00 50.00 55.00 55.00 45.00 55.00 55.00 60.00 55.00 60.0	\$ 85.00 60.00 55.00 50.00 55.00 45.00 45.00 40.00 90.00 
	\$160,198.34	3191.1	i			\$221,832.58	4571.6			
OTHER CONSTRUCTS:			Sples					Sales		1
Horning's Mills Hational Portland Coment Company Walkerton Quarry Severn System	6,149.30	146.6	41.94	39.00	\$ 60.00 25.00	\$ 851.05 5,217.65 6,418.26	76.1 45.8	42,28		35.00 25.00
TOGETHER as per Operating Account (Exhibit I)	\$166,783.67	3355.1				\$232,319.51	4698.5			

#### HUTE:

<sup>(</sup>b) Average moree power billed, reduced by line loss thereby increasing the flat rate of \$25.00 used in interim power bills.

<sup>(</sup>c) Electrical power delivered to these municipalities during part of the year only, has been put on an annual basis.



# HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO RUGENIA SYSTEM

## STATEMENT OF HORSE POWER LOADS AND RATES FOR THE TEN BONTHS BID INC AUGUST 31, 1922.

		Rates per Horse Power					
	Average		January 1	to August 31			
Particulars	Horse Fower (Annual Basis)	0et. 31,1921 to Jan. 1,1922	Original	Adjusted Netroactive to January			
Arthur	118.5	\$ 85.00	\$ 85.00	-			
Chatsworth	33.0	60.00	*60.00	\$ 70.00			
Chesley	263.7	58.00	55.00	A 10* 00			
Dundalk	88.4	50.00	*50.00	55.00			
Durham	315.4	50.00	50.00	11 12 15 15 15 15 15 15 15 15 15 15 15 15 15			
Elmwood	37.8	55.00	55.00				
Flesherton	47.2	45.00	*45.00	55.00			
Grand Valley	62.0	70.00	*70.00	60.00			
Hanover	1210.5	40.00	*40.00	35.00			
Holstein	11,1	90.00	90.00	00¢ VU			
Kincardine	143.0	48.00	48.00				
Lucknow	7.7	60.00	60.00				
Markdale	88.4	50.00	50.00				
Mount Porest	180.6	65.00	65.00				
Reustadt	205.9	55.00	55.00				
Crangeville	184.5	65.00	65.00				
Owen Sound	1421,3	30.00	*30.00	40.00			
Priceville	8.8	47.00	47.00	N. W. D. C. A.			
Ripley	64.5	60.00	60.00				
Shelburne	144.3	50.00	50.00				
Tara	45.8	90.00	90.00				
Teeswater	113.5	40.00	40.00				
<b>∀inghas</b>	259.1	45.00	45.00				
Banover Cement a Stone Company,							
Limited	118.5	te	45.00				

#### \*NOTE:

The original rates, in cases of adjustment of rates, were used in Interim Fower Bills from January 1 to June 30, 1922.



#### EUGHNIA SYSTEM - OV-DHEAD EXPENSAS

(Subsidiary to Operating Statement )

Particulars		Fiscal Year End	ling October 31	
POPELOUZER	1918	1919	1920	1921
Hend Office Salaries	\$ 2,314.42	\$ 5,277.19	\$ 5,943,85	\$ 5,512,7
Field Office Salaries			4,356.78	1,671,14
Executive Expenses	364.83	2,104.93	843.44	1,388.7
Field Office Expenses	100			774.90
All Stations and Lines Undistributed				
Expense	3,185.34	1,285.52	274.55	2,796.1
Undistributed Truck and Car Expense	-	5,557.21	9,231.41	4,105.99
Camp Operation	-	-	632.99	467.5
Automobile Expense	-	**	1,650,32	
Municipal Auditing	407.66	386.65	1,123.65	2,084.5
Hunicipal Engineering	-	696.35	1,997.87	2,050.03
Estimating	83.26	268.78	499.95	488,61
Hydraulic Engineering	808.42	222.13	220.50	1,609.8
Electrical Engineering	- ACC - 12		446.16	160.2
Municipal Administration	2,068.21	3,502.63	3,583,11	5,036.9
Extraordinary Maintenance	-	1,015.47	427.93	6,920.0
Depreciation on Tools	~	•	-	341.6 623.9
Hamiling Maintenance Stores	*	**	•	367.6
Carage Operation Laboratory Operation	_		_	616.1
Hiscellaneous General Expense	2,042,74	488.84	1,572,54	1,020.8
Stamps, Stationery, etc.	224.46	1,222,65	512.06	225.1
Horning Mills Account	27.46.40	-	-	899.5
in the state of th				
	\$11,499,34	\$22,026,35	\$33,316,80	\$39,132.2



## PEDDOLERATION FOR CONTROL OF CHARTO

# PROTEIN STORY PRINCE SIETS

	Year ending October 31						
Particulars	1018	1919	1030	1931			
Interest and Sinking Fund collectible from Eunicipal- ities which operate lines	\$116.94	\$126.60	5194 <b>.64</b>	\$142.90			
Deduct- Interest on Capital Invest- ment Provision for Sinking Sund	87.09	\$ 94.12 30.92	\$ 94.12 30,59	\$108.34 34.65			
Together	\$116.04	124.64	\$124.64	\$142.99			
Palance	2.42	211		MAL			

#### TOTE:

Bural Lines operated by the municipalities of Flesherton and Warkdale, which supply the power and pay operating expenses.



#### 1971810 - TRECTURE POWER CONFIDENCE OF CHYARIC

#### FRICHGIA SYSTEM

MANUFOCT BUT THE PARTS OF ARMAL RATE OF 2.78% FOR HIS TON YOR P. BUNNIS

		Carital Investment (October 11.1816) "stimuted		Estimated Residual Values		Reserve to be Provided		
	fortage period						Fravision Find Lazis)	
Particulars	Youal Amount	(in yours)	% of Investment	Amount	Total	Amount	of investment	
NAMES PLANTS		free Street		**************************************			500000	
Clearing	\$ 4,704.		200	4 4,104.	0 -	5		
Jurie Tink (storl)	5,015.	50	10	350.	5,025	32.91		
ure tank (excuvation)	4,930.		100	4,930.	No Citato	32.97		
lood lime (Fire)	18.146.	30	2,1	454.	17,692.	594.13		
Wood Flume (excavation)	30,359.		200	30,350.	4	-		
Perstock (stool)	10,493.	40	10	3,030.	32,666.	343.74		
Fenetach (excavation)	A. 174.		100	4.574.				
Onto ouse	19,756.	86		-	19,756.	125.41		
Yulvas	1,054.	15	10	800.	7,978.	399.43		
Surbinen	20, 100.	19	5	1.530.	80,466.	2.075.36		
Jover-Fouse Substructure	21,450.	40			21,450.	925.73		
Sail from	10.557.	49	100	10.557.				
Cural	51,746.		100	51,746.				
(It) or Dame, etc.	25,110,	100			33,110,	10.67		
Together	.859, 358.	40		\$103,117.	\$155,141.	02,617.66	1.0095	
PUICE HAUR DE LA CESE, DETECH								
made Transferred and light of the								
Site &	5 90°		100	\$ 30.	3 .	3		
halleing D	10,993.	50	4	770.	10,393.	66.96		
"lectrical C.". I.	37, 443.	15	20	7.500 .	30,274.	1,511.92		
'actumical N.P.S.	8,147.	90	10	315.	3,332.	95.10		
Cottages	0,050.	30	10	50°0.	5,483.	186.12		
Tonether	\$ 50,041.	465	10	9,376.	44 782. 7801,985.	1,857.10	3.199	
Total Formr Trant	1314,319.	44		3113,396.	4801,935.	4.874.76	1.487	
PALS INTO LEVE:								
Limit-of-lay	# 9,143.		100	9 9,143.	3 -	3		
Tole line	791, M.B.	12	-		280,606.	14,914.87		
Cable	3 1,750 e	50	60	100.675.	73,130.	47: ,95		
Torether	414,548.			0118,808.	\$295,726.	115,395.83	3.689	
STATIONS:								
uildings	9 13,276.	30	4	9 531.	9 12,745.	3 227.34		
"lectrical Equipment	31,000	16	30	7.773.	30,935.	1,417.46		
Together	51,944.			3 8,384.	9 45,680.	1,044.68	3.196	
Totals	0786,811.			3239,482.	0541,309.	\$81.615.26	2.768	

SECONCILIATION WITH " SE FICHERS Total amount of Canital Investment per books

\$1,137,680.00

induct -

con-operating Carital (work under construction) 3 37,572.00
con-operating (appurate Dam,
fluodage rights, ste.) 319,207.00

356,869.00 \$ 780,811.00

Balance as above



## HYDRO - ELECTRIC POWER COMMISSION OF SHTARIO RUGENIA SYSTEM

#### STATEMENT OF RESERVE FOR CONTINGERCIES

Particulars	1	Fin	cal Jear on	ding October	31		
- Cus parters a	1917	1918	1919	1990	1921	Together	
Balance at the beginning of year	<b>&amp;</b> -	\$10,645.50	\$16,717.61	\$19,488.48	\$13,430,94	ş -	
Amounts charged as a part of the cost of power delivered -							
To Municipalities	454.80	586.78	646.86	797.75	1,142.90	3,629.09	
To Severn System	408.70	334.25	261.75	4.35	31.72	1,040,77	
To Private Companies		101.88	178.95	36.65	-	317.42	
Profit or Loss for the year on power sold to private companies	-	4,610.71	1,753.08	3,091.85	-	3,271.94	
Profit on sale of miscellaneous equipment, etc.	9,782.00	12.73		-	-	9,794.73	
Interest at 4% per annum		425,82	668.70	779.54	537.24	2,411.30	
	\$10,645.50	\$16,717.61	\$20,226.95	\$18,014.92	\$15,142,80	20,465,25	
Deduct-						-	
Uncollectible belance of Alton Foundry Company (Private Company)		8 -	\$ 375.74	0 -		\$ 373,74	
Expenditures during the year - Repairing and replacing equipment on lines which had been damaged by storm				3,711,47	•	3,711.49	
Costs incidental to the transfer of equipment			_	872.51		872.51	
Dismantling National Coment Company Distributing Station, also crating and removal of equipment	-			•	3,939.37	3,939.37	
Difference between purchase and transfer price of transfermers shipped from Orangaville to Walkerton		_			982,50	982,50	
Miscellaneous			364.73		105.38	471.08	
Total charges	à -		8 738.47				
76.000 01101 800		-	9 138.47	\$ 4,583.98	\$ 3,053.22	4 8,385.67	
Ralance at close of each fiscal year ending October 31	\$10,645.50	\$16,717.61	\$19,488.48	\$13,430.94	\$12,079.58	\$12,079.58	

The second secon

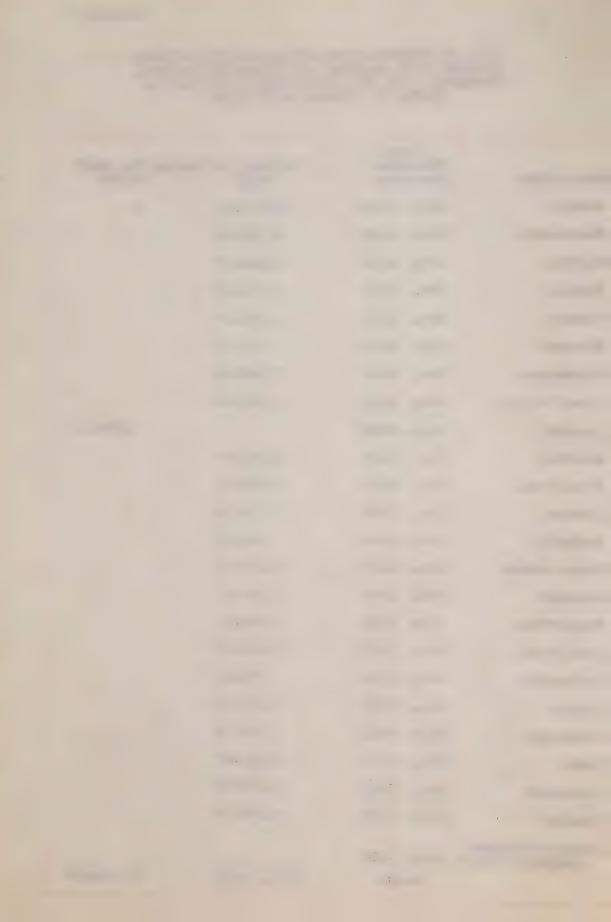
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grade of the market entreplied and the entreplied of the entree of the e

The state of the s

nbity to locally from whiteher a constant of oil translation to the following a constant fig. LIST OF MONICIPALITIES IN THE EUGENIA SYSTEM, TOGETHER WITH BALANCES AS AT OUTCREE S1, 1921, ASSULTING TROSE THE ADJUSTMENT, TO THE COST OF POSER, OF INTERIR POSER BILLS

	Coresa	nced	Balance at Oct	ober 31, 1921
Emicipality	Opera	ting	Debit	Credit
Arthur	Dec.	1916	\$9,515.86	
Cateworth	Dec.	1915	1,831.64	
Chesley	July	1916	6,654.73	
Dundalk	Dec.	1915	3,968,57	
Durhon	Dec.	1915	1,502,80	
il mond	Apr.	1918	915,27	
Fleeherton	Dec.	1915	2,943,43	
Grand Valley	Dec.	1016	2,063,88	
Hanover	Sept.	1916		2,750.90
Moletein	Kay	1016	4,640.44	
Lineardine	Mar.	1921	3,855.69	
Lucknow	Jan.	1921	2,577.19	
Markdale	Mar.	1916	627.69	
Nount Forest	Des.	1915	17,615.48	
Meustadt	Dec.	1918	2,098,61	
Orangeville	July	1916	8,649.64	
Owen Sound	Dec.	1915	16,210,28	
Priceville	Ear.	1021	280.55	
Ripley	Jan.	1921	1,014.45	
Shelburne	July	1916	3,313,73	
Tara	Peb.	1018	6,063,87	
Teeswater	Dec.	1630	1,817.15	
Tingham	Dec.	1920	5,576,72	
Sundry Customers Berning's Eills	July	1915		Sec. C. S. F. Straker, Secretary and
And Commencer an	Tot	als	\$163,477.55	42,750.00



#### HYDRO - RESCRETE POWER COMMISSION OF CHTARIO

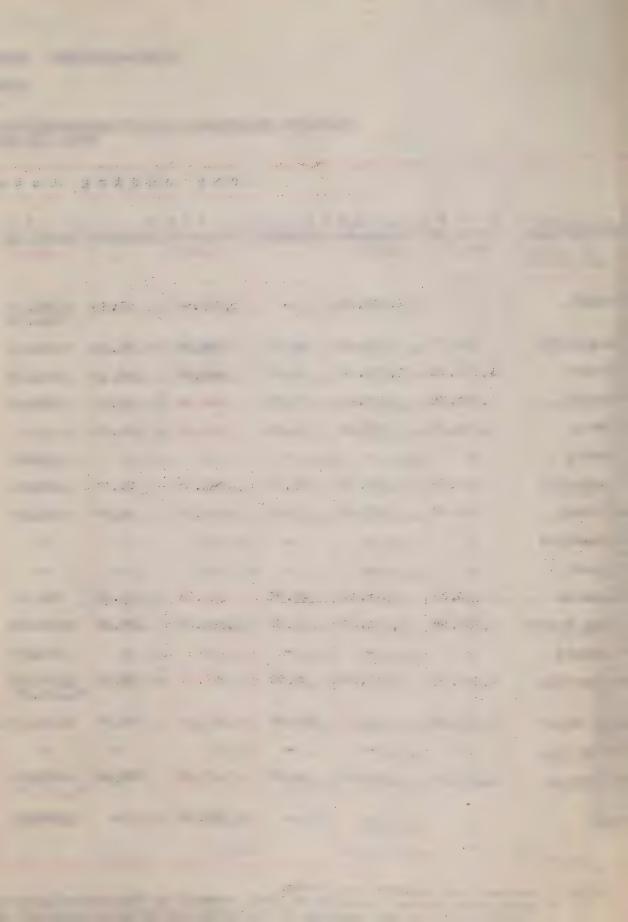
EUCENIA SYSTEM

STATEMENT OF ACCOUNTS DUR BY LUNICIPALITIES IN RESPECT OF THE COUT OF FOUR, AT OCTOBER 31, 1921, STILL UNFAID AT SETTEMEN 20,1922

Year ending Cotober 31														
Aumicipality	1916	Charge or		Charge or	Interest	Charge or Credit	Interest	l 9 :		i 9 Charge or		Balance at Cotober 31 1921	Years	Payments on Acct. Subsequent to Got. 31,1921
Arthur	6 -	3,685.35	-	1,058.96	83,46	2,237,23 4341,59	106.87	3,314.13	242.30		384.55	9,515.86	5	•
Chatsworth	558,57	108.61	25.31	48, 82	30,66	229.55	38, 62	431.47	44.15	109.11	65, 17	1,831,64	6	752, 28
Chesley	1,963.26	2,638.48	75.49	627.42	187.16	260.01	219.75	1,586.60	238.94	2000	311.96	6,654.73	6	-
Dundelk	1,983.28	256,90	79.33	254.95	92.54	359.96	86.86	1,088.15	104.72	16.85	152.48	3,900.57	-	2,000.00
Durham	2,111.37	411.99	84.46	304.17	104.32	. 3	88, 32	472.74	89.53		111.06	1,502.80	6	-
Elimood	-	•	-	-	4	410,55	4.50	633, 26	16,68	104,40	42,68	925,27	3-	
Flesherton	674,99	356,12	25.00	146,93	40.25	171.46	47.81	656, 84	56.58	730.33	85.12	2,943,43	6	302.94
Holstein	406, 07	820, 44	16.20	634.16	49.67	656.32	77.02	804.47	106.36	927.94	142,79	4,640,44	6	•
Eineard ine	-	-	-	-	*	œ	*	-	*	3,885,89	-	3,855.59	1-	-
Lucknow		-	-	-	-	-	-	-		1,677.19	-	1,577.19	2.	•
Earkdale	900.06	310,46	35,99	1.1.11	49.85	222, 18	47.91	-	57.78	11	68.28	627.69	6	•
Bount Forest	5,188.50	3,521.44	206,68	1,362.21	356.66	2,223,97	426,42	2,171.60	531.39	988.13	635.61	1,7,615,48	6	988.13
Roustad t		-	-	-	-	832.53	•	1,455,62	33.30	105,86	92.86	2,098.61	3	•
Orangeville	1,492.72	751.30	59.70	-	92.15	2,235.39	77.03	2,683,77	215.36	35.10	331.33	8,649.64	6	•
Owen Sound	8,391.93	6,	335.66	11,060.66	75,38	3,724,59	355,66	14,141.33	487.19	14,676,85	58, 98	16,210,28	6	-
Priceville			-		-	-	-	-	100	280,55	-	280.55	1-	252, 44
Shelburne	1,156.22	624, 50	46,94	47,49	-92,00	629.06 61,159.88	-	2,416.07		576,55	150,68	3,313,73	5	150.68
Tara		-	-	1,660,38	-	2,048,10	66.74	1,468,40	181,55	444,80	216.12	6,063,87	4	-
	1-12495		3990%	1868.70	1233.18	٩١				Totals		892,205.37		€4,446.47

NOTE: C denotes each payments on account

represents accrued interest on final payment to Fine River Light and lover Company charge ble to these
municipalities for pure see of Grangeville-Shelburne-Horning's Lills System acquired by the Commission
under agreement dated Pebruary 10,1815.



### SPECIMEN OF AGREEMENT RE EUGENIA LINES

#### OPERATED BY THE COMMISSION

Excerpts from Agreement dated June 2, 1916, entered into by the Aydro-Blectric Power Commission of Ontario and the Municipal Corporation of the Town of Arthur.

The Commission agrees with the Corporation to reserve and deliver at the earliest possible date, one hundred and fifty horse power (150 H.F.) or more of electrical power to the Corporation, and at the expiration of a reasonable notice in writing, which may be given by the Corporation from time to time during the continuance of this agreement, to reserve and deliver to the Corporation, additional electric power when called for.

In consideration of the foregoing covenants, the Corporation agrees with the Cormission:

To pay annually, interest at rate payable by the Commission upon the Corporation's proportionate part (based on the quantity of electrical energy or power taken) of all monies expended by the Commission on capital account for the acquiring of properties and rights, the acquiring and construction of generating plants, transformer stations, transmission lines, distributing stations and other works necessary for the delivery of electrical energy or power to the Corporation under the terms of this contract.

Also to pay an annual sinking fund instalment of such amount as to form at the end of 30 years, with accrued interest, a sinking fund sufficient to repay the Corporation's propertionate part, based as foresaid, of all monies advanced by the Province of Ontario for the acquiring of properties and rights, the acquiring and construction of generating plants, transformer stations, ing and construction of generating plants, transformer stations, transmission lines, distributing stations and other work necessary for the delivery of said electrical energy or power. Also sary for the delivery of said electrical energy or power. Also to pay the Corporation's proportionate part, based as aforesaid, of the cost of lost power, and the cest of generating, maintaining, of the cost of lost power, and the cest of generating plants, transfor-repairing, ranewing and insuring said generating plants, transformer stations, transmission lines, distributing stations and other necessary works.

The amounts payable under this contract shall be paid in twelve monthly payments, and bills shall be rendered by the Commission on or before the 5th day and paid by the Corporation on or before the 15th day of each month. All payments in arrears shall bear interest at the legal rate.

To take electric power exclusively during the continuance of this agreement from the Commission.

To pay for three-fourths of the power ordered from time to time by the Corporation and held in reserve for it as herein provided whether it takes the same or not. When the highest average amount of power taken for any twenty consecutive minutes during any month shall exceed during the twenty consecutive minutes three-fourths of the amount ordered by the Corporation and held in reserve, then the Corporation shall pay for this greater amount during the entire month.

If the Corporation during any month takes more than the amount of power ordered and held in reserve for it, as determined by an integrated peak, or highest average, for a period of twenty consecutive minutes, the taking of such excess shall thereafter constitute an obligation on the part of the Corporation to pay for, and on the part of the Commission to hold in reserve, such increased quantity of power in accordance with the terms and conditions of this contract.

When the power factor of the highest average amount of power taken for said twenty consecutive minutes falls below 90% the Corporation shall pay for 90% of said power divided by the power factor.

This agreement shall remain in force for thirty years from date of the first delivery of power under this contract.

The Commission shall at least annually adjust and apportion the amount or amounts payable by the Eunicipal Corporation or Corporations for such power and such interest, sinking fund, cost of lost power and cost of generating, operating, maintaining, repairing, renewing and insuring said works.

pursuant to said Act, any railway or distributing Company, or any other Corporations or person, applies to the Commission for a supply of power, the Commission shall notify the applicant and the involved Corporation or Corporations in writing, of a time and place and hear all representations that may be made as to the terms and conditions for such supply.

No such application shall be granted if the said works or any part thereof are not adequate for such supply, or if the supply of the Corporation will be thereby injuriously affected, and no power shall be supplied within the limits of a Sumicipal Corporation taking power from the Commission at the time of such application without the written consent of such Corporation.

It is hereby declared that the Commission is to be a trustee of all property held by the Commission under this agreement for the Corporation or Corporations supplied by the Commission but the Commission shall be entitled to a lien upon said property for all monies expended by the Commission under this property for all monies expended by the Commission under this agreement agreement and not repaid. At the expiration of this agreement the Commission shall determine and adjust the rights of the the Commission and any other (if any) supplied by the Commission, Corporation and any other (if any) supplied by the Commission, having regard to the amounts paid by them respectively under the terms of this agreement, and such other considerations as may appear equitable to the Commission and are approved by the Lieutenant-Governor-in-Council.

If differences arise between Corporations to which Commission is supplying power, the Commission may upon application fix a time and place and hear all representations that may be made by the parties and the Commission shall, in a summary manner, when possible, adjust such differences and such adjustment shall be final. The Commission shall have all the powers that may be conferred upon a Commissioner appointed under the Act respecting Enquiries concerning Public Satters.



### MICCOLA SYSTEM RURAL LINES

Excerpts from Agreement dated October 29, 1921, entered into by the Hydro-Slectric Fower Commission of Ontario and the Corporation of the Township of Artemesia.

The Commission agrees with the Corporation to supply and construct all lines on the highway and to supply and erect at such points as may be approved by the Commission, such transformers, lightning arresters, fuse boxes, meters or other apparatus, made necessary by contracts for electric service, between the Corporation and residents or users within the township; to operate, maintain, renew and insure the said lines, transformers, etc., and to collect from the customers all monies due on account of electrical service rendered under this agreement, at rates approved by the Commission, and to make an accounting of same, a report of which shall be rendered to the Corporation annually.

In consideration of the foregoing covenants, the Corporation agrees with the Commission:

To grant the free right to construct on the highway, lines, transfermers, etc., made necessary by contracts.

To grant the right to operate, maintain and insure lines, etc., and to collect from customers all monies due on account of electrical service, in accordance with the contracts between the Corporation and the customer.

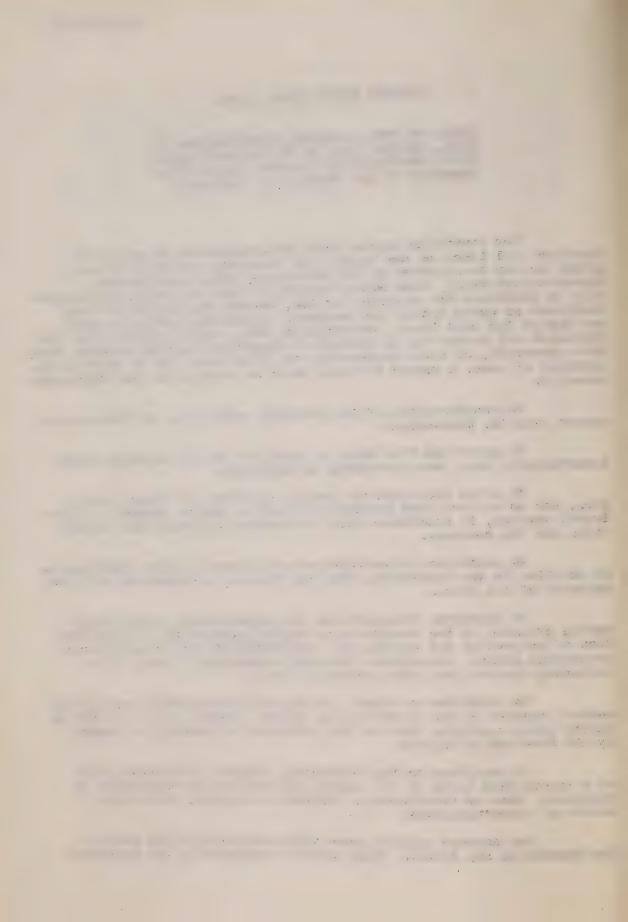
To guarantee to the Commission the cost of power delivered to or supplied by the Commission, plus the charges in connection with the delivery of the power.

To guarantee interest upon its proportionate parts of the monies expended by the Commission on capital account for the acquisition of properties and rights, and acquisition of and construction of concrating plants, transformer stations, transmission lines, distributing stations and other necessary works,

To guarantee an angual sum for its proportionate part of all monies expended by the Commission on capital account, so as to form in thirty years a sinking fund for the retirement of securities issued by the Province of Cotario.

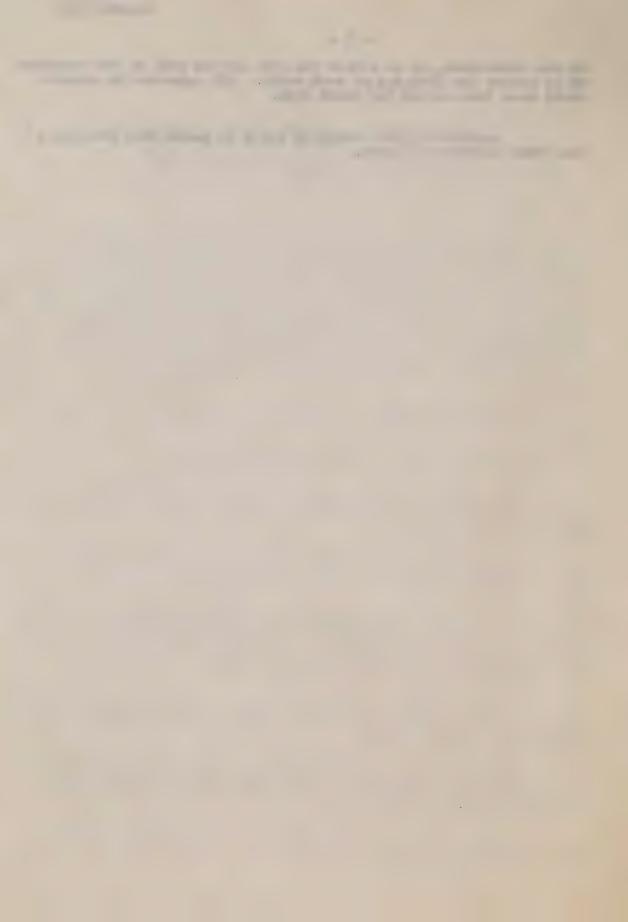
To guarantee to the Commission, interest and sinking fund on a twenty year basis on all capital invested by the Commission in equipment, such as transformers, lightning arresters, fuse boxes, meters or other apparatus.

The amounts payable under this contract shall be paid as the Commission may direct. Bills shall be rendered to the consumers



by the Commission, on or before the 5th day and paid by the consumer on or before the 15th day of each worth. All payments in arrears shall bear interest at the legal rate.

Agreement shall remain in force 30 years from the date of the first delivery of power.



## HYDRO-SLANTRIC RAMES COMMISSION OF DETAILS

### ATTENDANCE OF THE

HANDPARDUM PREPARED BY THE ENGLISHING DE ARTHURY OF THE HYDRO-LLECTRIC POPEN CARRICULTS OF STRAIN OF THE LINE BATTLEN WARDEL, ORIGINA WE SIG CRITE, AND RATIONAL GAVEN AND RUGARIA STRAIN

The Tie Line between the Unsdell Development and Big Clute through the Orillia System, consists of two sections, viz:-

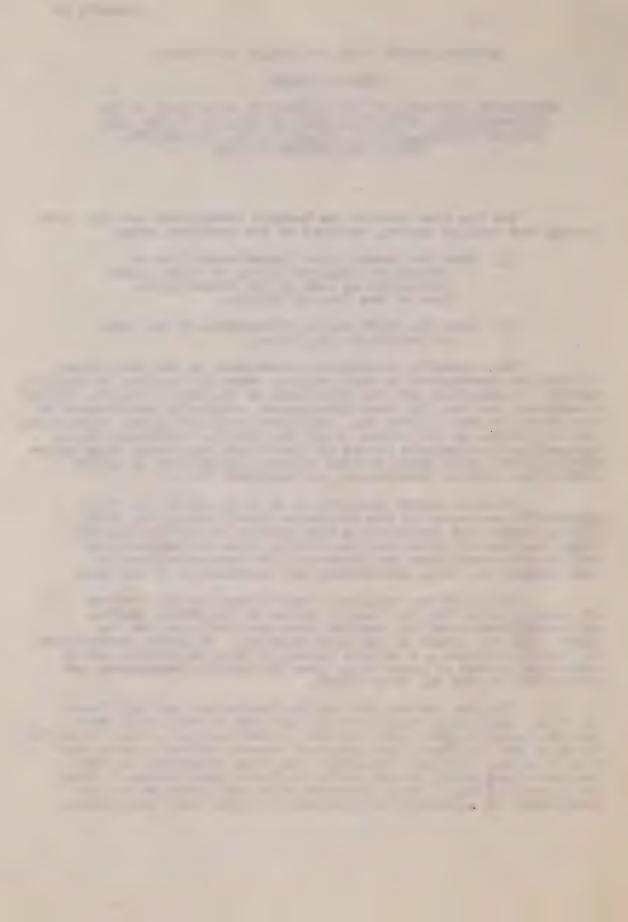
- (1) From the Wasdell Main Transmission Line at Fawkins to Longford Hills, at which point connection is made to the transmission line of the Town of Orillia.
- (2) From the Swift Rapide Development of the Town of Grillis to Big Chute.

The Wasdell's Development constructed by the Cormission, the Orillia Development at Swirt Hapids, owned by the Town of Orillia through an agreement with the Department of Railways & Canale, Tederal Coverament, and the big Chute Development, originally constructed by the Biscoe Railway & Town Co., and later permased by the Countscion, are all located on the Severa River, the Orillia Development lying between the Countscion's plants at Wasdell and Rig Clute, thus trussmission lines tying these systems together located one on either side of the Orillia Development, as described above.

Attached hereto (Exhibit 1% a) is a copy of the Chief Angineer's autoraxion to the Commission dated January 20, 1916, giving reasons for constructing that portion of the tie line between the Tasdell System and the Orillia lines at Longford, as well as an extract from the Minutes of the Commission meeting held January 20, 1916, authorizing the construction of the line.

This line was originally constructed for the purpose of passing power from the Tabdell System to the Severn System, as Tablell Development and surplus power available and the hig Chute Flant was loaded to its then capacity. This was accomplished by Tabdell delivering a certain assumt of power to frills and equivalent assumt of power taken from the Orillia Development and transmitted to the hig Thute Minut.

The line between the crillia bevolupment and high ate Plant was prighably constructed by the Town of Crillia to composit its harped highes Plant with the linear Railway Lower Co. That at the highest por Agree of "Macro Milway I Town To." with crillia. Origin desired to have the connection for the purpose of orthing standay power for their local system. The the sincee Milway I Town You may's Thank was purchased by the Commission the agreement was continued in force until expiration.



The original agreement between the Simose Builway & Fower Company and Orillia re that portion of line between Orillia Develop-ment and Mig Chute which was assumed by the Commission when acquiring the properties of the Company, expired December 31, 1915, and was renewed for a period of six months. As per instructions ( to ibit IX b) of the Chief Engineer to Mr. James under date of June 7, 1916. an agreement was prepared covering a transfer of power from asdell to Mig Chute through the Orillia Lyston, also for the purpose of securing standby power and emergency power for all three systems on the basis of the Commission paying a minimum bill of (2,000 per assumes for 250 h.P. at 30.00 per h.P. per a sum. All additional power interchanged to be at the rate of \$5.00 per h.P. per summs. This agreement also covered the purchase by the Commission of the Orillia Line between their Plant and hig Shute. For reasons liven later, this agreement was not executed until December 30, 1916. This agreement was later found to be unsatisfactory due to parallel operating conditions between the Plants, and a new agreement was executed under date of December 9, 1919, superseding the one dated December 31, 1916. The memorandum of the Chief Decimeer to the Corrission concerning this matter dated June 6, 1916, is attached hereto (Amilbit IX e) as is an extract from the Commission's limites of their meeting held June 6, 1916, authorizing the preparation of SSOR S.

Canal, Severa River Section, it was found necessary to draw out the Ragged Rapids Flant by a das at Swift Papids, consequently the Department of Railways & Canals entered into an agreement with Orillia giving them the Water Power Rights at Swift Rapids with certain other concessions, hence the new development at Swift Rapids in lieu of the abandoned Ragged Rapids Flant. As the campe from one plant to the other occurred during the war and as Fillia was carrying a large Munition load it was found necessary to execute an agreement with the Commission to obtain power until Swift Rapids was capable of taking care of the Orillia power requirements. As the Commission did not have sufficient expectly in his Soute and Tablell to surely the Commission Development and Collingwood tying Lagenia, Severa, Orillia and Lagenia Development and Collingwood tying Lagenia, Severa, Orillia and Lagenia Development and Collingwood tying Lagenia, Severa, Orillia and Lagenia Power page 1

The matter was placed before the Commission in a Londrandom dated August 2, 1916, copy attached hereto (Andret IX d) and an agreement was accordingly executed with the Jown of Fillia covering 2,000 h.P. For a proval see copy of an extract from the Commission's Limites of Reeting held on August 8, 1916, (LXL) it IX d). The Augusta-Levern Tie Line was constructed in the Elli of 1916.

This agreement was for a quort term, was dated adjust 15.

1916, and supersaded previous agreement. It covered the supply
of 2,000 h.P. from October 1, 1916, to July 1, 1917, to Jorafy
only. The long term agreement covering pentament conditions, was
ensouted December 31, 1916, and was supersaded by agreement executed
December 9, 1918.



The Commission purchased the Tie Line between Dwift Navids Plant and Hig Chute Flant from the Town of Orillia for 10,000 as per agreement dated December 9, 1819, Clauses 6 (c),(d) and (e), for the following purposes:-

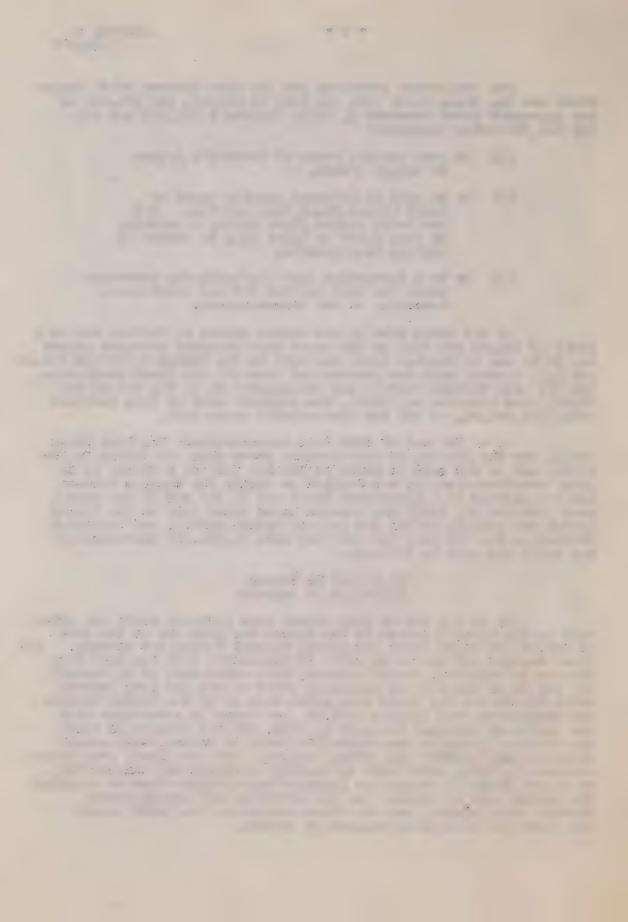
- (1) To pass surplus power of Sandell's System to Severn System.
- (2) To be able to purchase surplus power of Swift Rapids Plant from Orillia. The new Swift Rapids Flant having a capacity of from 2,000 to 2,500 H.P. in excess of Orillia requirements.
- (3) To be a connecting link for supplying energency power for both Orillia and the Cormission, according to the circumstances.

As all power sold by the Nevern System to Orillia was an a basis of \$25.00 per N.P. on the short term contract executed august 15, 1916, and as Augenia power was sold to the Severn hystem at 125.00 per N.P. Augenia kept the revenue and bore all the fixed charges on the Tie Line between Eugenia and Collingwood up to the end of the fiscal year (October 31, 1920), the original cost of this Tie Line being \$92,924.90, as per the Commission's books 1917.

As at the end of 1920 this sugeria-Severn Tie Line being useful for the purpose of transferring power from one system to the other, and as the sale of power to drillia was not a factor to be given consideration, it was decided to divide the charges between the two systems on a horsepower basis and at the end of the fiscal year (October 31, 1921) the average horse power sold on the Severn System was 5445.8, and on the sugeria System 4696.5, and the total charges on the Tie Line for the year were \$9,401.12; consequently the split was made as follows:

35.044.67 to Severn 34.356.45 to Engenia

Up to the end of 1980 fiscal year (October Slat) all power sold by the Visdall System to the Devern was paid for at the rate of \$25.00 per acres power per answa, Misdall taking the revenue. All fixed charges and operating costs in commection with the line from Parkham to Longford, Visdall System, were taken care of by Indall, and the fixed charges and operating costs on the Tie Line between Swift Rapids and Dig Chute were taken care of by the Devery System. The Carmineles paid Orillia \$750.00 per acres in across one of the the grounds account the December V. 1919, for the purpose of using the Grillia System to pass Vandell's power to Devern, this account being charged against the Devere System. For the fiscal year offine October 31, 1921, power sold by Vandell to Devern was Carried for on a cost basis as far as the junction with Orillia line at Longford, the rental paid to Orillia for the privilege of passing power through their system, and the fixed charges on the Dwift Depicts Dig Chute Tie Line being charged to Bevern.



It whould be noted that the Mig Chute Flant located on the Severn River is capable of taking care of Migh load factor loads on account of the fairly steady stream flow of the Beform River due to the requisition by the Department of Tailways and Canals, and the large storage basin afforded by Lakes Couchiching and Mimcoc. It is, therefore, possible to operate the Mig Chute Plant at approximately, full load capacity, twenty-four hours per day. As the demand on the Mig Chute Flant from various municipalities served is very light during the hours from aid-night to 7 o'clock the following norming and also during Sundays and Holidays it is possible during much periods to transfer a large secunt of power to the Augenia System without any additional cost to the Severn System, thereby enabling the Counission to curtail the output of the augenia Development and store water in the Eugenia Torage Lasin.

The Augenia Pevelopment is essentially a peak load generating plant, the Storage Basin being capable of supplying a large amount of pover for short periods and on sequently, by working the Eugenia Development in the summer outlined above, the maximum efficiency can be obtained from the water available at both locations, honce the advantage of the Tie Line between the two systems.

The Mandell Development is not loaded at the present time and has surplus power available. The some applies to the Orillia Development: consequently by the Tie Line between the Thadell and mig Chute Developments on either side of the Orillia System it is possible for the Commission to obtain the surplus power at both of these developments for use on the Severn System at peak load periods and if necessary to arrange for passing power through to the Augenia System should the Lig Chute Flast not be able to supply sens.

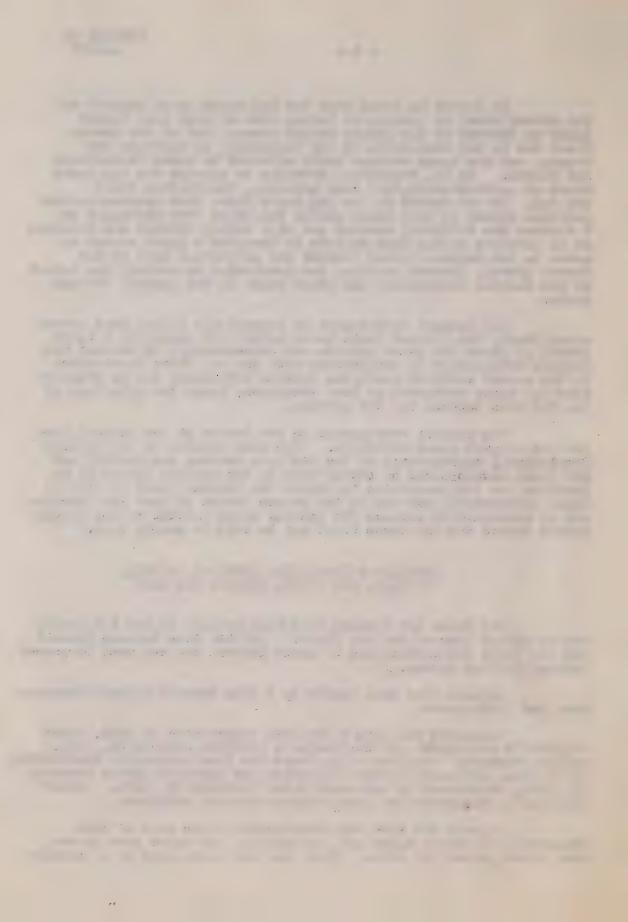
# OTIMESIS - COMMITTIONS COVERING TAXABLE,

one on either side of Brillia Flast. Orillia lies between Masdell and Mig Date and interchange of power between the two must be passed through Orillia System.

ment and Collingwood.

madell's tie lise to Ori lia constructed in 1916, Chief omineer's neurondus and Participal's approval Japuary 20, 1918, copies attached. Brillia - ig Chute tie lise originally constructed by Orillia, purchased by the Comission per agreement dated December 11, 1916, superseded by agreement dated December 15, 1915. Chief angleser's memorandus and Company of a proval attached.

sugemin tie like ver caretrasted in the Pall of 1918 originally to supply 2,000 m.P. to Pallin, for abort tem agreement dated August 10, 1918. This like was later used as a straight



tie line between systems.

Company overing the line between Orillia System and hig Clute expired December 31, 1915, was removed for six (5) months.

The agreement dated December 31, 1215, between the Commission and Orillia was intended to cover future conditions, power tring sold to the Commission at (5.00 with minimum bill of 2,000.00, minimum amount of power 150 h.P. Thile this greement was in preparation the manafacture of mar inside and a change from Dagged Rapids to wift hapids by Orillia medesaltated additional power for abort periods, hence temperary sine (5) months agreement with Orillia and the Commission of the dupon 15, 1916, and which was the means of providing the ariginal tie line between Orillia and Colling code on the Levern Lystem. This present being temperary only, the personnel agreement was executed occuber 31, 1916, but was found to be unsatisfactory due to parallel oversting conditions and was superseded by personnel agreement dated Docember 5, 1919.

### ADVANTAGES OF TIR LILLS

Yasiell's able to pass surplus power to Cevern.

Severa able to buy surplus power from Wasdell's and Orillia.

itability survice and transfer of energency power to and from

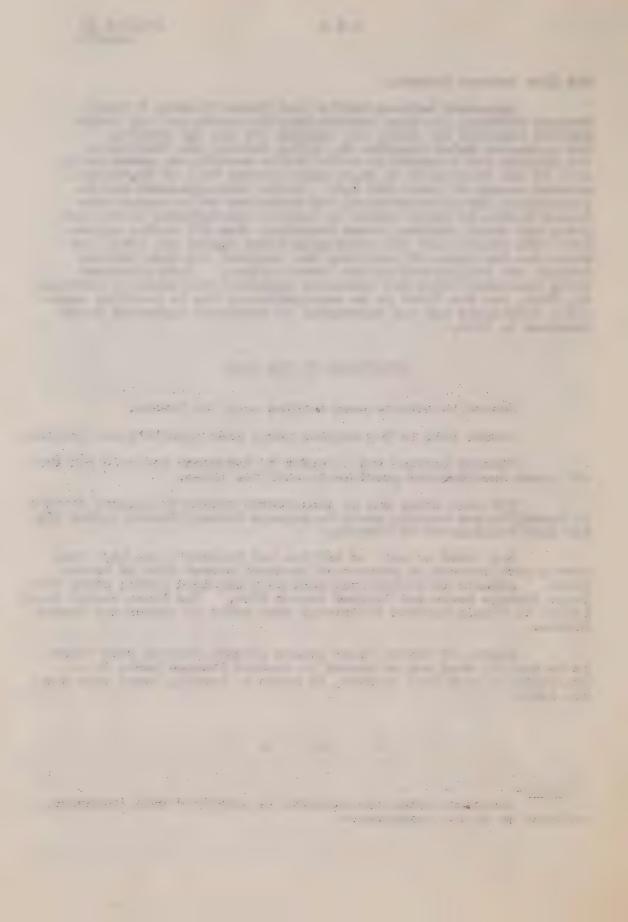
Off peak power can be transferred Severn to Augenia as well as Tasdell's and Crillia power to Augenia through Severn Myster via tie line Collingwood to Eugenia.

Mig Chute as well as Orillia and Washell's are high load factor developments on account of constant stress flow of Nevern Hiver. Algebia is a high lead peak load low load factor plant with large storage basis and limited stress flow. The lines enable Compission to obtain maximum efficiency from water of Beaver and Tevern Nivers.

is no use for a me can be stored in agents Horage hasin to be available at pod lost periods, by news of passing power over the tic lines.

發 费 频

Attached herote are initials IX a to IX d both inclusive, referred to in the foregoing:



### HYDRO-SLACTRIC POYAR CYCHISTIN DE DENAHD

### MINITE ATOMINE

# SECTION AS CONSECTION PROPERTY THE WATERLING AND ORDER A-LOUPED LIVE

(This Memorandum referred to in Axhibit IX)

Toronto, January 20, 1916

### NAKORANDA TO BIR ADAR MECK, CHAIRMAD:

Siri

Referring to conditions on the Revers Cystem, I beg to report that we have at present a load on the big Chute Plant, without supplying power to Orlilia of 2000 h.p. or with Orillia taking approximately 800 h.p., a total of 3000 h.p.

Contracts have been entered into with the C.P.W. at Port McMichel, requiring from 400 to 500 h.p., municipality of Collingwood, 400 h.p., and municipalities of Midland, Pometanguishene and Savrie, 200 to 300 h.p. - - in all a load of over 4000 h.p., on the Severn System, hig Chute development.

In view of the conditions and the urgency of augmenting the supply of power, I would recommend that a connection be made between the Wasdell's and Grillis-Longford lines, if some agreement can be arrived at with the municipality of Grillia, for the supplying of power from Tablell's Jalls and the Rig Chute, as conditions warrant. The cost of such a connection is in the neighborhood of \$15,000.00, to enable both systems to be operated antisfactorily.

I desire your instructions and anthority in regard to this matter, and have the honour to be, Sir,

Your obedient servant.

(CLASTICE TARTE)

推 搬 张

# MINUTES OF COMMISSION RESTING

The Chief Engineer reported on the advisability of a connection being made between Taudell's and Orillia-Lougford lines for the supply of weer from Taudell's Falls and the hig Chute, which was approved and authorized to be gone on with providing an agreement was completed with the municipality of Orillia upon terms already submitted.



## HYDRO-SLECTRIC POPLS CHEMISSION OF OSTABLO

### MEDITA TYTE

MENORATIVE RS ACTUATION TESTELEN THE MUNICIPALITY OF ORILLIA AND THE HYDRO-LLECTRIC FOWER COMMISSION OF OPTAVIO.

(This Eccorandum referred to in Exhibit IX)

faronta, june 7th, 1916.

### MANUALINE TO MANUALINE

I beg to inform you that the localisaion has outhorized the preparation of an agreement colveen the manicipality of brillia and the Commission, for the supplying of lower front the swift words Plant -- the following terms to be incorporated therein:

- 1. Noticed of measurement to be standard.
- 2. The Commission to undertake to pay a minimum bill of \$2000 per assum, during the period of non-emplotion of the plant at the big Chute; upon completion of this plant the above guarantee of minimum bill shall terminate, and a new agreement be made between the parties for emergency service or firm power as the case may be.
- 3. The Commission to pay at the rate of \$8.00 per horsepower per cumum for firm horsepower delivered from Swift Repids Plant during any month, measured as per standard agreement submitted to the municipality.

Amergency power and uncontrollable fluctuations due to the operation of the plants in parallel shall not be considered in such measurement.

This part of the agreement shall receive careful consideration with the object of taking care of all emergency and fluctuation conditions with may result or arise from the parallel operation of all the plants on the Severm.

- 4. The Commission to undertake to parchase, at present valuation, the lines between Swift Rapids, and his Chute, and install a second circuit.
- 5. The Cormission and the municipality agree to the joint use of the lines between Mg Chute, Swift Papids, Orillia, Longford and Thedell's for the purpose of interchange of power between Madell's and Mg Chute or Swift Rapids, Mg Chute and Wasdell's.
- 6. Resurrement of power to be made at the respective gonerating stations and no charge to be made for the use of the lines of the Commission or the municipality up to the assount equal to 800 or 1000 horsepower.

Refer to the recent commications to and from the numicipality of willia and place this latter in hand immediately so that the agreement may be foldy at the earliest possible date.

Yours truly.

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## MYDRO-ALACTRIC FORCE CORNINGIN DE DETARIO

### SINGITA STOTET

NOTES REVISIT OF UR. HALL, E.P., OF THE ORIGINA COLU-

(This Memorandum referred to in Domibit III)

Toronto, June 6th, 1916

TO BIR ADAM BECK, K.B. CHATRIAS:

8122

The Crillia Commission has advised us that it contemplates putting in a third generator and turbine equipment, providing it can secure from the Commission a guarantee of a minimum bill of 12000. Per annua, it being understood that upon such an agreement being entered into, the Commission sould have the right to use the lines of the Crillia Commission for the transfer of power from the Wasdell's Falls plant to the Severn System.

The Commission would, under this arrangement, purchase the transmission lines between Swift Rapids and the Rig Chute, at the physical valuation, i.e. the cost to the Orillia Commission less depreciation.

Payment to the Orillia Commission to be made only on firm power as taken by the Commission.

I informed it. hals that the matter of the previous discussion had been referred to you for decision and that I was instructed to state that the Commission would be willing to pay on a minimum of 200 h.p. for any month in which the Commission obtained a supply of firm power from Swift Rapids or Fasdell's, the Commission to pay at the rate of 30.00 per horsepower or minum for such power taken.

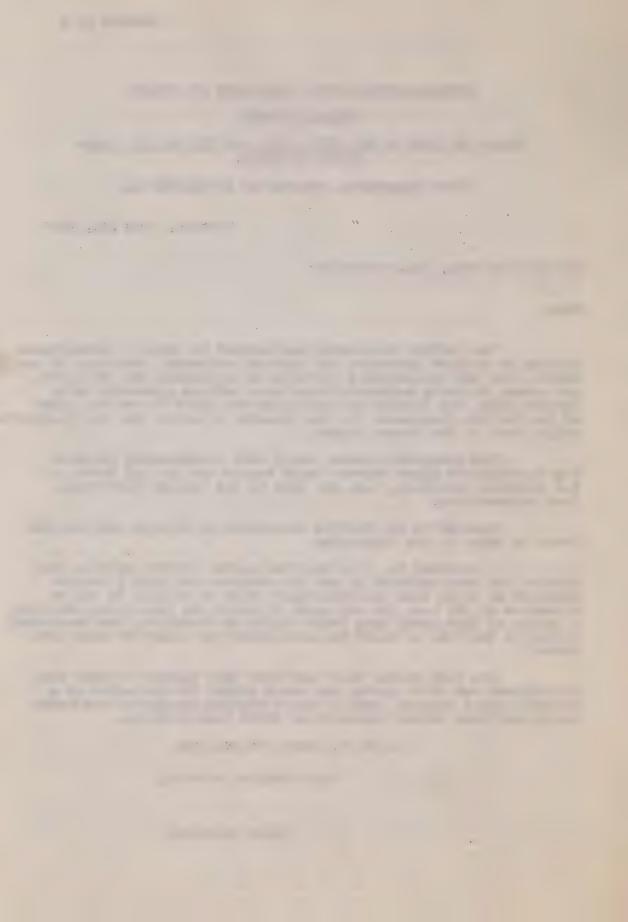
Mr. Hale stated that they were very anxious to make the arrangement set forth above, and would prefer the guarantee of a minimum annual pageent, rether than a minimum horsepower per month being used from either Tablell's or Swift Papids plants.

I have the honour to be, Mir,

Your obedient servant,

Chief Anginaer.

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# LIBUTUS OF CHUITSION MARTING

vith and the Chief Angineer and Secretary were authorized to prepare contracts and advise Orillia that contracts were being prepared covering all the metters under consideration and would be submitted as soon as complete.

雅 兼 兼

Toronto, July 18, 1916

### LIM RANDUM OF PROBA CONVERSATION LITH ER, C. E. BALB, OBILLIA, ONTARIO

Mr. Hale desires to arrange for a mosting to discuss Orillia matters on Thursday, 20th inst. The Hunicipality has under consideration contract for 1000 H.P. for munitions works. The Hunicipality desires to know the mount the Commission can deliver from Wasdell's Falls and Big Chute plants during the coming winter. Also it is considering the use of a steam auxiliary during this period.



# LYDBO-MISCIPIC POWER CUMINSION OF CHANIC

MENDRANDON RE OMINEIA AGRAPHANT.

(This Memorandum referred to in Exhibit IX)

Toronto, August 2, 1916

(TO SIR ADAM RECK, K.D. CHAIRMAN)

71 Th

### IN RE ORILLIA AGRICULT

I have the honour to inform you that I have received a request from the aunicipality of Orillia for the supply of at least 2000 h.p. during a period of nine months, from October 1st, 1916, to July 1st, 1917; and to inform you also that the Courtiseion requires additional capacity to supply power in the Covern District.

In view of this fact, I would recommend that the Commission enter into a contract with the municipality of Orillia for the construction of a tie-line between the Sugenia and impossystems, connecting the Sugenia Station with Collingwood, at an expenditure of approximately \$130,000.00.

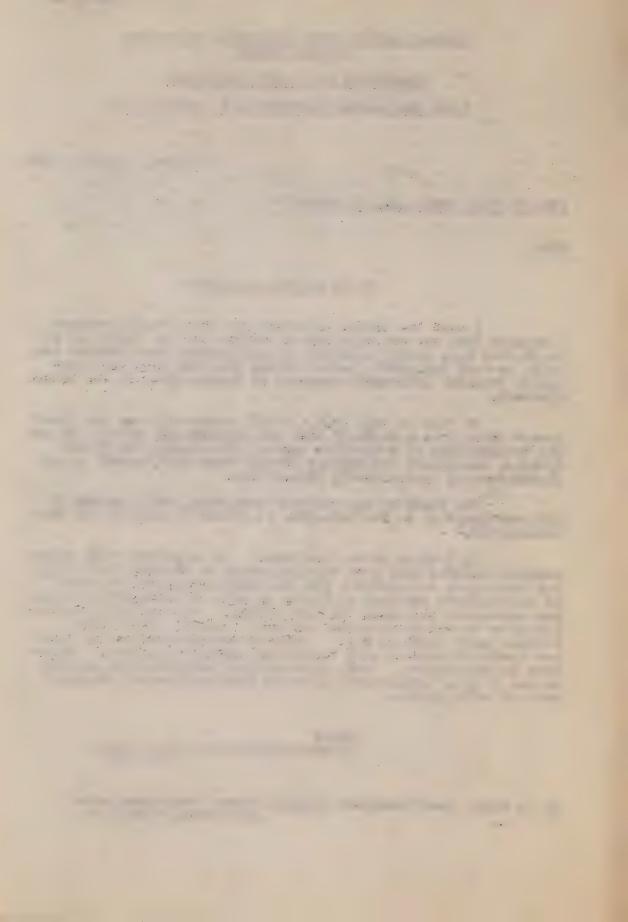
The terms of the contract suggested, and accepted by the municipality, by its telegram, in answer to ours of the 31st ultime: vis.-

standing reached with your representative on Thursday July 17th, standing reached with your representative on Thursday July 17th, the Commission will deliver two thousand horse-power on terms of Commission's standard contract, at rate of twenty-five dollars of Commission's standard contract, at rate of twenty-five dollars of Commission's standard contract, at rate of twenty-five dollars of Commission's Standard dollars in sontly instalments whether power taken or not. Power to be delivered at his Chute and madell's without cost for transmission to Longford. A request in preparation. This also confirms understanding reached re use of your transmission lines by Commission until development of Swift Rapids.

(Sgd.)

Bydro-Muetric Power Commission,
F.A. CART

F. A. Gaby, Colef Angineer, hydro-clastric Fower Cormission of Octable, Transfer."



"Telegram thirty-first July received. We will make contract for two thousand horsepower on terms outlined. Thirty thousand dollars to be minimum of total payments for whole period and to be in lieu of seventy-five per cent clause. Our Commission to take no responsibility for capital outlay or maintenance on line to magenia and to acquire no rights in it. Power to continue to be supplied after expiry of mine months period as far as practicable, until completion of Swift Rapids plant at twenty-five dollar rate for amount used monthly. We will defer transfer of our transmission lines until line to magenia is completed as requested. Whole agreement contingent on understanding that line from magenia Collingwood will be begun by Mydro at once, and completed by October first at latest. This arrangement not to projudice pending contract for sale of power to hydro from our new Swift Rapids plant.

(SOD) ORILLIA WATER LIGHT & FOWER COMMISSION

C.H. Rale, Vice-Chairman

The municipality of Orillia is to enter into an agreement with the Commission on terms and conditions similar to its standard contract for the supply of power, with the exception of the minimum charge of 75% of the maximum demand, in lieu of which the municipality agrees to pay a minimum bill of \$30,000.00 in monthly instalments, for the power taken over a period of nine months, the maximum amount not to exceed 2000 h.p. The municipality also agrees to pomit the Commission to use its transmission lines between Longford and Big Chute without cost to the Commission until the tie-line between Mugenia and Collingwood is constructed, work on which is to be started immediately, and estimated date to complete which is October lat, 1916.

above, be entered into with the numicipality of Orillia, and sm,

Siro.

Your obedient servant,

(CHINE SHGINGER)

4 4 4

### HISUTES OF COMMISSION MEETING HELD AUGUST 8, 1 9 1 6.

Agreement with Town of Orillia was referred to the Chief Engineer and Secretary to complete matters.

portion are no ver execution infor to consider of at evering becaused ting to design and to deplie or exists and almost of case the state of many of the service of Tonge 1980, fourther affect . Extended whether on sing notice at an analysis to materialism out replaced and other power to them not not northern actions and to the second of the sec services to be a tradering for the section to be



